OM nucleic - nucleic search, using sw model

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

Run on: March 15, 2006, 01:23:01 ; Search time 95 Seconds
(without alignments)
2713.120 Million cell updates/sec

Title: US-10-620-039-1
Perfect score: 145
Sequence: 1 TTGGCCACTCCCTCTTCTGCG..........CTCCATCACTAGGGGTTCCT 145
Scoring table: IDENTITY NUC
              Gapop 10.0 , Gapext 1.0
Searched: 1303057 seqs, 888780828 residues
Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :   Issued Patents NA:*
1: /cgn2_6/ptodata/1/ina/1_COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/H_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PP_COMB.seq:*
8: /cgn2_6/ptodata/1/ina/RE_COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	145	100.0	145	2	US-07-789-917A-1	Sequence 1, Appl
	2	145	100.0	145	3	US-08-702-573-4	Sequence 4, Appl
	3	145	100.0	145	3	US-07-982-193-1	Sequence 1, Appl
	4	145	100.0	145	3	US-09-782-378A-6	Sequence 6, Appl
	5	145	100.0	165	2	US-07-989-841A-1	Sequence 1, Appl
	6	145	100.0	165	3	US-08-440-738A-1	Sequence 1, Appl
	7	145	100.0	165	3	US-08-471-914-1	Sequence 1, Appl
	8	145	100.0	165	3	US-09-276-625-7	Sequence 7, Appl
	9	145	100.0	165	3	US-10-054-665A-7	Sequence 1, Appl
	10	165	100.0	165	3	US-09-782-378A-8	Sequence 8, Appl
	11	145	100.0	4675	3	US-09-782-378A-1	Sequence 1, Appl
	12	145	100.0	4679	3	US-10-038-972A-12	Sequence 12, Appl
	13	145	100.0	4679	3	US-08-254-358-1	Sequence 1, Appl
	14	145	100.0	4680	2	US-08-475-391-1	Sequence 1, Appl
	15	145	100.0	4680	2	US-08-709-609-1	Sequence 1, Appl
	16	145	100.0	4680	6	PCT-US95-07178-1	Sequence 1, Appl
	17	145	100.0	4680	3	US-09-807-808-18	Sequence 1, Appl
	18	145	100.0	4681	3	US-09-807-802A-18	Sequence 1, Appl
	19	145	100.0	4683	3	US-09-807-802A-19	Sequence 19, Appl
	20	145	100.0	5932	3	US-09-299-141-4	Sequence 4, Appl
	21	145	100.0	5932	3	US-09-299-141-4.	Sequence 4, Appl
	22	145	100.0	6142	3	US-09-299-141-8	Sequence 8, Appl
	23	145	100.0	6142	3	US-09-299-141-8	Sequence 8, Appl
	24	145	100.0	6253	3	US-08-893-327-15	Sequence 15, Appl
c	25	145	100.0	6253	3	US-08-893-327-15	Sequence 15, Appl
c	26	145	100.0	6280	3	US-08-893-327-17	Sequence 17, Appl
c	27	145	100.0	6280	3	US-08-893-327-17	Sequence 17, Appl
c	28	145	100.0	6280	3	US-08-893-327-19	Sequence 19, Appl
c	29	145	100.0	6280	3	US-08-893-327-19	Sequence 19, Appl
c	30	145	100.0	6565	3	US-09-299-141-1	Sequence 1, Appl
c	31	145	100.0	6565	3	US-09-299-141-1	Sequence 1, Appl
c	32	145	100.0	6714	3	US-09-299-141-6	Sequence 6, Appl
c	33	145	100.0	6714	3	US-09-299-141-6	Sequence 6, Appl
c	34	145	100.0	6924	3	US-09-299-141-9	Sequence 9, Appl
c	35	145	100.0	6924	3	US-09-299-141-9	Sequence 9, Appl
c	36	145	100.0	6924	3	US-09-299-141-10	Sequence 10, Appl
c	37	145	100.0	6924	3	US-09-299-141-11	Sequence 11, Appl
c	38	145	100.0	6924	3	US-09-299-141-11	Sequence 11, Appl
c	39	145	100.0	6981	3	US-09-299-141-7	Sequence 7, Appl
c	40	145	100.0	6981	3	US-09-299-141-7	Sequence 7, Appl
c	41	145	100.0	7054	3	US-09-299-141-3	Sequence 3, Appl
c	42	145	100.0	7054	3	US-09-299-141-3	Sequence 3, Appl
c	43	145	100.0	7054	3	US-09-299-141-2	Sequence 2, Appl
c	44	145	100.0	7405	3	US-09-299-141-2	Sequence 2, Appl
c	45	145	100.0	7405	3	US-09-299-141-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1
US-07-789-917A-1
Sequence 1, Application US/07789917A
Patent No. 5252479
; GENERAL INFORMATION:
; APPLICANT: Srivastava, Arun
; TITLE OF INVENTION: SAFE VECTOR FOR GENE THERAPY
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Scully, Scott, Murphy Presser
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: New York
; COUNTRY: USA
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release q.0, Version q.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/789,917A
; FILING DATE: 19911118
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: McNulty, William E.
; REGISTRATION NUMBER: 22,606
; REFERENCE/DOCKET NUMBER: 8361
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742-4343
; TELEFAX: (516) 742-4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 145 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-07-789-917A-1

Query Match   100.0%; Score 145; DB 2; Length 145;
Best Local Similarity 100.0%; Pred. No. 3.5e-30;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGCCACTCCCTCTTCTGCGCGGCCGCGCTCGCGTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC 60
       ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

```
Db    1  TTGGCCACTCCCTCTCCTCTGCGCGCTGCCTGCCTCGCTCACTGAGGCCGACCAAAGGTCGCC  60
Qy   61  CGACGCCCCGGGCGCTTTGCCCGGGGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG  120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61  CGACGCCCCGGGCGCTTTGCCCGGGGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG  120
Qy  121  GCCAACTCCATCACTAGGGGTTCCT  145
         |||||||||||||||||||||||||
Db  121  GCCAACTCCATCACTAGGGGTTCCT  145
```

RESULT 2
US-08-702-573-4
; Sequence 4, Application US/0870257-3
; Patent No. 6033885
; GENERAL INFORMATION:
;   APPLICANT: LATTA, Martine
;   APPLICANT: DENEFLE, Patrice
;   APPLICANT: VIGNE, Emmanuelle
;   APPLICANT: PERRICAUDET, Michel
;   TITLE OF INVENTION: INTEGRATIVE RECOMBINANT ADENOVIRUSES,
;   PREPARATION THEREOF AND THERAPEUTICAL USES THEREOF
;   NUMBER OF SEQUENCES: 13
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Rhone-Poulenc Rorer Inc.
;   STREET: 500 Arcola Rd. 3C43
;   CITY: Collegeville
;   STATE: PA
;   COUNTRY: USA
;   ZIP: 19426
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatible
;   OPERATING SYSTEM: PC-DOS/MS-DOS
;   SOFTWARE: PatentIn Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/08/702,573
;   FILING DATE:
;   CLASSIFICATION: 424
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: FR 94/02445
;   FILING DATE: 03-MAR-1994
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: WO PCT/FR95/00233
;   FILING DATE: 28-FEB-1995
;   ATTORNEY/AGENT INFORMATION:
;   NAME: Smith Ph.D., Julie K.
;   REGISTRATION NUMBER: 38,619
;   REFERENCE/DOCKET NUMBER: ST94011-US
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: (610)454-3839
;   TELEFAX: (610)454-3808
; INFORMATION FOR SEQ ID NO: 4:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 145 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: double
;   TOPOLOGY: linear
;   MOLECULE TYPE: other nucleic acid
;   FEATURE:
;   NAME/KEY: misc feature
;   LOCATION: 1..145
;   OTHER INFORMATION: /note= "Minimal ITR Sequence"
US-08-702-573-4

  Query Match   100.0%; Score 145; DB 3; Length 145;
  Best Local Similarity   100.0%; Pred. No. 3.5e-30;
  Matches 145; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

```
Qy    1  TTGGCCACTCCCTCTCCTCTGCGCGCCTGCCTCGCTCACTGAGGCCGACCAAAGGTCGCC  60
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1  TTGGCCACTCCCTCTCCTCTGCGCGCCTGCCTCGCTCACTGAGGCCGACCAAAGGTCGCC  60
```

```
Qy   61  CGACGCCCCGGGCGCTTTGCCCGGGGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG  120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61  CGACGCCCCGGGCGCTTTGCCCGGGGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG  120
Qy  121  GCCAACTCCATCACTAGGGGTTCCT  145
         |||||||||||||||||||||||||
Db  121  GCCAACTCCATCACTAGGGGTTCCT  145
```

RESULT 3
US-07-982-193-1
; Sequence 1, Application US/0798219-3
; Patent No. 6261834
; GENERAL INFORMATION:
;   APPLICANT: Srivastava, Arun
;   TITLE OF INVENTION: SAFE VECTOR FOR GENE THERAPY
;   NUMBER OF SEQUENCES: 2
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Scully, Scott, Murphy & Presser
;   STREET: 400 Garden City Plaza
;   CITY: Garden City
;   STATE: New York
;   COUNTRY: USA
;   ZIP: 11530
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatible
;   OPERATING SYSTEM: PC-DOS/MS-DOS
;   SOFTWARE: PatentIn Release #1.0, Version #1.25
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/07/982,193
;   FILING DATE: 19921125
;   CLASSIFICATION: 435
;   ATTORNEY/AGENT INFORMATION:
;   NAME: McNulty, William E.
;   REGISTRATION NUMBER: 22,606
;   REFERENCE/DOCKET NUMBER: 8361
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: (516) 742-4343
;   TELEFAX: (516)742-4366
;   TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 1:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 145 base pairs
;   TYPE: NUCLEIC ACID
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   MOLECULE TYPE: DNA (genomic)
US-07-982-193-1

  Query Match   100.0%; Score 145; DB 3; Length 145;
  Best Local Similarity   100.0%; Pred. No. 3.5e-30;
  Matches 145; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

```
Qy    1  TTGGCCACTCCCTCTCCTCTGCGCGGCGCTGCCTCGCTCACTGAGGCCGACCAAAGGTCGCC  60
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1  TTGGCCACTCCCTCTCCTCTGCGCGGCGCTGCCTCGCTCACTGAGGCCGACCAAAGGTCGCC  60
Qy   61  CGACGCCCCGGGCGCTTTGCCCGGGGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG  120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61  CGACGCCCCGGGCGCTTTGCCCGGGGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG  120
Qy  121  GCCAACTCCATCACTAGGGGGTTCCT  145
         ||||||||||||||||||||||||||
Db  121  GCCAACTCCATCACTAGGGGGTTCCT  145
```

RESULT 4
US-09-782-378A-6
; Sequence 6, Application US/0978237-8A
; Patent No. 6916635
; GENERAL INFORMATION:
;   APPLICANT: Hearing, Patrick

; APPLICANT: Bahou, Wadie
; APPLICANT: Sandalon, Ziv
; APPLICANT: Gnatenko, Dmitri
; TITLE OF INVENTION: Adenoviral Vectors
; FILE REFERENCE: STONYB-04970
; CURRENT APPLICATION NUMBER: US/09/782,378A
; CURRENT FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/237,747
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin version 3.0
;
; SEQ ID NO 6
; LENGTH: 145
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-782-378A-6

Query Match   100.0%; Score 145; DB 3; Length 145;
Best Local Similarity   100.0%; Pred. No. 3.5e-30;
Matches 145; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

```
Qy    1 TTGGCCACTCCCTCTCTCTGCGCGCTCGCTCACTGAGGCCGGGCGACCAAAAGGTCGCC 60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1 TTGGCCACTCCCTCTCTCTGCGCGCTCGCTCACTGAGGCCGGGCGACCAAAAGGTCGCC 60

Qy   61 CGACCCGCCCGGGCGCGGGCCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CGACCCGCCCGGGCGCGGGCCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120

Qy  121 GCCAACTCCATCACTAGGGGGTTCCT 145
        ||||||||||||||||||||||||||
Db  121 GCCAACTCCATCACTAGGGGGTTCCT 145
```

RESULT 5
US-07-989-841A-1
; Sequence 1, Application US/07989841A
; Patent No. 5478745
GENERAL INFORMATION:
APPLICANT: Samulski, R. J.
APPLICANT: Xiao, X.
TITLE OF INVENTION: Recombinant Viral Vector System
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/989,841A
FILING DATE: On even date herewith
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 6636-013
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-8864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 165 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
US-07-989-841A-1

Query Match   100.0%; Score 145; DB 2; Length 165;
Best Local Similarity   100.0%; Pred. No. 3.5e-30;
Matches 145; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

```
Qy    1 TTGGCCACTCCCTCTCTCTGCGCGCTCGCTCACTGAGGCCGGGCGACCAAAAGGTCGCC 60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   21 TTGGCCACTCCCTCTCTCTGCGCGCTCGCTCACTGAGGCCGGGCGACCAAAAGGTCGCC 80

Qy   61 CGACCCGCCCGGGCGCGGGCCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   81 CGACCCGCCCGGGCGCGGGCCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 140

Qy  121 GCCAACTCCATCACTAGGGGGTTCCT 145
        ||||||||||||||||||||||||||
Db  141 GCCAACTCCATCACTAGGGGGTTCCT 165
```

RESULT 6
US-08-440-738A-1
; Sequence 1, Application US/08440738A
; Patent No. 5869305
GENERAL INFORMATION:
APPLICANT: Samulski, R. J.
APPLICANT: Xiao, X.
TITLE OF INVENTION: Recombinant Viral Vector System
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/440,738A
FILING DATE: May 15, 1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 6636-022
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-8864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 165 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
US-08-440-738A-1

Query Match   100.0%; Score 145; DB 2; Length 165;
Best Local Similarity   100.0%; Pred. No. 3.5e-30;
Matches 145; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

```
Qy    1 TTGGCCACTCCCTCTCTCTGCGCGCTCGCTCACTGAGGCCGGGCGACCAAAAGGTCGCC 60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   21 TTGGCCACTCCCTCTCTCTGCGCGCTCGCTCACTGAGGCCGGGCGACCAAAAGGTCGCC 80

Qy   61 CGACCCGCCCGGGCGCGGGCCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   81 CGACCCGCCCGGGCGCGGGCCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 140
```

```
Qy  121 GCCAACTCCATCACTAGGGGTTCCT 145
        |||||||||||||||||||||||||
Db  141 GCCAACTCCATCACTAGGGGTTCCT 165
```

RESULT 7
US-08-471-914-1
; Sequence 1, Application US/08471914A
; Patent No. 6057152
; GENERAL INFORMATION:
; APPLICANT: Samulski, R.
; APPLICANT: Xiao, X.
; TITLE OF INVENTION: RECOMBINANT VIRAL VECTOR SYSTEM
; FILE REFERENCE: 6636-027
; CURRENT APPLICATION NUMBER: US/08/471,914A
; CURRENT FILING DATE: 1995-06-06
; EARLIER APPLICATION NUMBER: 08/440,738
; EARLIER FILING DATE: 1995-05-15
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 165
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: double-D
; OTHER INFORMATION: sequence
US-08-471-914-1

Query Match   100.0%; Score 145; DB 3; Length 165;
Best Local Similarity   100.0%; Pred. No. 3.5e-30;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy    1 TTGGCCACTCCCTCTCTGCGCGCGCTCGCTCACTGAGGCCGGGGGAGCGGGCGGCCACCAAAAGGTCGCC 60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   21 TTGGCCACTCCCTCTCTGCGCGCGCTCGCTCACTGAGGCCGGGGGAGCGGGCGGCCACCAAAAGGTCGCC 80

Qy   61 CGACGCCCGGGCGTTTGCCCGGGCGGGGGGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   81 CGACGCCCGGGCGTTTGCCCGGGCGGGGGGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 140

Qy  121 GCCAACTCCATCACTAGGGGTTCCT 145
        |||||||||||||||||||||||||
Db  141 GCCAACTCCATCACTAGGGGTTCCT 165
```

RESULT 8
US-09-276-625-7
; Sequence 7, Application US/0927662S
; Patent No. 6436392
; GENERAL INFORMATION:
; APPLICANT: Engelhardt, John F.
; APPLICANT: Duan, Dongsheng
; TITLE OF INVENTION: Adeno-associated virus vectors
; FILE REFERENCE: 875.007US1
; CURRENT APPLICATION NUMBER: US/09/276,625
; CURRENT FILING DATE: 1999-03-25
; PRIOR APPLICATION NUMBER: US 60/086,166
; PRIOR FILING DATE: 1998-05-20
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 165
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: SEQ ID NO:1 of U.S. Patent No. 6436392
US-09-276-625-7

Query Match   100.0%; Score 145; DB 3; Length 165;
Best Local Similarity   100.0%; Pred. No. 3.5e-30;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy  121 GCCAACTCCATCACTAGGGGTTCCT 145
        |||||||||||||||||||||||||
Db  141 GCCAACTCCATCACTAGGGGTTCCT 165
```

RESULT 9
US-10-054-665A-7
; Sequence 7, Application US/10054665A
; Patent No. 6897045
; GENERAL INFORMATION:
; APPLICANT: Engelhardt, John F.
; APPLICANT: Duan, Dongshen
; APPLICANT: University of Iowa Research Foundation
; TITLE OF INVENTION: Adeno-associated virus vectors
; FILE REFERENCE: 875.007US2
; CURRENT APPLICATION NUMBER: US/10/054,665A
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: US 60/086,166
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 09/276,625
; PRIOR FILING DATE: 1999-03-25
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 165
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: SEQ ID NO:1 of U.S. Patent No. 6897045
US-10-054-665A-7

Query Match   100.0%; Score 145; DB 3; Length 165;
Best Local Similarity   100.0%; Pred. No. 3.5e-30;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy    1 TTGGCCACTCCCTCTCTGCGCGCGCTCGCTCACTGAGGCCGGGGGAGCGGGCGGCCACCAAAAGGTCGCC 60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   21 TTGGCCACTCCCTCTCTGCGCGCGCTCGCTCACTGAGGCCGGGGGAGCGGGCGGCCACCAAAAGGTCGCC 80

Qy   61 CGACGCCCGGGCGTTTGCCCGGGCGGGGGGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   81 CGACGCCCGGGCGTTTGCCCGGGCGGGGGGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 140

Qy  121 GCCAACTCCATCACTAGGGGTTCCT 145
        |||||||||||||||||||||||||
Db  141 GCCAACTCCATCACTAGGGGTTCCT 165
```

RESULT 10
US-09-782-378A-8
; Sequence 8, Application US/0978237BA
; Patent No. 6916635
; GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick
; APPLICANT: Bahou, Wadie
; APPLICANT: Sandalon, Ziv
; APPLICANT: Gnatenko, Dmitri
; TITLE OF INVENTION: Adenoviral Vectors
; FILE REFERENCE: STONYB-04970
; CURRENT APPLICATION NUMBER: US/09/782,378A
; CURRENT FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/237,747
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 27

```
;  SOFTWARE: Patentin version 3.0
;  SEQ ID NO 8
;  LENGTH: 165
;  TYPE: DNA
;  ORGANISM: Homo sapiens
US-09-782-378A-8

Query Match             100.0%;  Score 145;  DB 3;  Length 165;
Best Local Similarity   100.0%;  Pred. No. 3.5e-30;
Matches 145;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy    1 TTGGGCCACTCCCTCTCTGCGCGCCTCGCTCGTCACTGAGGCCGGACCAAAGGTCGCC 60
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   21 TTGGGCCACTCCCTCTCTGCGCGCCTCGCTCGTCACTGAGGCCGGACCAAAGGTCGCC 80

Qy   61 CGACGCCCGGGGCTTTGCCCGGGGCGGGCGGGCGGCGGCCCAGAGAGCGGGAGTG 120
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   81 CGACGCCCGGGGCTTTGCCCGGGGCGGGCGGGCGGCGGCCCAGAGAGCGGGAGTG 140

Qy  121 GCCAACTCCATCACTAGGGGTTCCT 145
        |||||||||||||||||||||||||
Db  141 GCCAACTCCATCACTAGGGGTTCCT 165


RESULT 11
US-09-782-378A-1
;  Sequence 1, Application US/09782378A
;  Patent No. 6916635
;  GENERAL INFORMATION:
;  APPLICANT: Hearing, Patrick
;  APPLICANT: Bahou, Wadie
;  APPLICANT: Sandalon, Ziv
;  APPLICANT: Gnatenko, Dmitri
;  TITLE OF INVENTION: Adenoviral Vectors
;  FILE REFERENCE: STONYB-04970
;  CURRENT APPLICATION NUMBER: US/09/782,378A
;  CURRENT FILING DATE: 2001-02-12
;  PRIOR APPLICATION NUMBER: 60/237,747
;  PRIOR FILING DATE: 2000-10-02
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: Patentin version 3.0
;  SEQ ID NO 1
;  LENGTH: 4675
;  TYPE: DNA
;  ORGANISM: Human adeno-associated virus 2
US-09-782-378A-1

Query Match             100.0%;  Score 145;  DB 3;  Length 4675;
Best Local Similarity   100.0%;  Pred. No. 4.6e-30;
Matches 145;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy    1 TTGGGCCACTCCCTCTCTGCGCGCCTCGCTCGTCACTGAGGCCGGACCAAAGGTCGCC 60
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1 TTGGGCCACTCCCTCTCTGCGCGCCTCGCTCGTCACTGAGGCCGGACCAAAGGTCGCC 60

Qy   61 CGACGCCCGGGGCTTTGCCCGGGGCGGGCGGGCGGCGGCCCAGAGAGCGGGAGTG 120
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CGACGCCCGGGGCTTTGCCCGGGGCGGGCGGGCGGCGGCCCAGAGAGCGGGAGTG 120

Qy  121 GCCAACTCCATCACTAGGGGTTCCT 145
        |||||||||||||||||||||||||
Db  121 GCCAACTCCATCACTAGGGGTTCCT 145


RESULT 12
US-09-782-378A-2
;  Sequence 2, Application US/09782378A
;  Patent No. 6916635
;  GENERAL INFORMATION:
;  APPLICANT: Hearing, Patrick
;  APPLICANT: Bahou, Wadie
;  APPLICANT: Sandalon, Ziv
;  APPLICANT: Gnatenko, Dmitri
;  GENERAL INFORMATION:
```

```
;  TITLE OF INVENTION: Adenoviral Vectors
;  FILE REFERENCE: STONYB-04970
;  CURRENT APPLICATION NUMBER: US/09/782,378A
;  CURRENT FILING DATE: 2001-02-12
;  PRIOR APPLICATION NUMBER: 60/237,747
;  PRIOR FILING DATE: 2000-10-02
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: Patentin version 3.0
;  SEQ ID NO 2
;  LENGTH: 4675
;  TYPE: DNA
;  ORGANISM: Human adeno-associated virus 2
US-09-782-378A-2

Query Match             100.0%;  Score 145;  DB 3;  Length 4675;
Best Local Similarity   100.0%;  Pred. No. 4.6e-30;
Matches 145;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy    1 TTGGGCCACTCCCTCTCTGCGCGCCTCGCTCGTCACTGAGGCCGGACCAAAGGTCGCC 60
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1 TTGGGCCACTCCCTCTCTGCGCGCCTCGCTCGTCACTGAGGCCGGACCAAAGGTCGCC 60

Qy   61 CGACGCCCGGGGCTTTGCCCGGGGCGGGCGGGCGGCGGCCCAGAGAGCGGGAGTG 120
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CGACGCCCGGGGCTTTGCCCGGGGCGGGCGGGCGGCGGCCCAGAGAGCGGGAGTG 120

Qy  121 GCCAACTCCATCACTAGGGGTTCCT 145
        |||||||||||||||||||||||||
Db  121 GCCAACTCCATCACTAGGGGTTCCT 145


RESULT 13
US-10-038-972A-12
;  Sequence 12, Application US/10038972A
;  Patent No. 6962815
;  GENERAL INFORMATION:
;  APPLICANT: J. Bartlett
;  TITLE OF INVENTION: AAV VECTORS AND METHODS
;  FILE REFERENCE: 28335/36996US
;  CURRENT APPLICATION NUMBER: US/10/038,972A
;  CURRENT FILING DATE: 2002-01-04
;  PRIOR APPLICATION NUMBER: US 60/260,124
;  PRIOR FILING DATE: 2001-01-05
;  NUMBER OF SEQ ID NOS: 18
;  SOFTWARE: Patentin version 3.1
;  SEQ ID NO 12
;  LENGTH: 4679
;  TYPE: DNA
;  ORGANISM: adeno-associated virus 2
US-10-038-972A-12

Query Match             100.0%;  Score 145;  DB 3;  Length 4679;
Best Local Similarity   100.0%;  Pred. No. 4.6e-30;
Matches 145;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy    1 TTGGGCCACTCCCTCTCTGCGCGCCTCGCTCGTCACTGAGGCCGGACCAAAGGTCGCC 60
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1 TTGGGCCACTCCCTCTCTGCGCGCCTCGCTCGTCACTGAGGCCGGACCAAAGGTCGCC 60

Qy   61 CGACGCCCGGGGCTTTGCCCGGGGCGGGCGGGCGGCGGCCCAGAGAGCGGGAGTG 120
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CGACGCCCGGGGCTTTGCCCGGGGCGGGCGGGCGGCGGCCCAGAGAGCGGGAGTG 120

Qy  121 GCCAACTCCATCACTAGGGGTTCCT 145
        |||||||||||||||||||||||||
Db  121 GCCAACTCCATCACTAGGGGTTCCT 145


RESULT 14
US-08-254-358-1
;  Sequence 1, Application US/08254358
;  Patent No. 5658785
;  GENERAL INFORMATION:
```

APPLICANT: Johnson, Philip R.
TITLE OF INVENTION: Adeno-Associated Virus Materials and
TITLE OF INVENTION: Methods
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 S. Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/254,358
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: No. 5658785and, Greta E.
REGISTRATION NUMBER: 35,302
REFERENCE/DOCKET NUMBER: 31975
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 474-6300
TELEFAX: (312) 474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 4680 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-254-358-1

Query Match   100.0%;   Score 145; DB 2;   Length 4680;
Best Local Similarity   100.0%;   Pred. No. 4.6e-30;
Matches 145;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

```
Qy   1 TTGGCCACTCCCTCTCTTGCGCGCCTCGCTCGCTCACTGAGGCGCGGGGGGGACCAAAGGTCGCC  60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 TTGGCCACTCCCTCTCTTGCGCGCCTCGCTCGCTCACTGAGGCGCGGGGGGGACCAAAGGTCGCC  60

Qy  61 CGACGCCCGGGCGGTTTGCCCGGGCGGGGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG  120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  61 CGACGCCCGGGCGGTTTGCCCGGGCGGGGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG  120

Qy 121 GCCAACTCCATCACTAGGGGTTCCT  145
        |||||||||||||||||||||||||
Db 121 GCCAACTCCATCACTAGGGGTTCCT  145
```

RESULT 15
US-08-475-391-1
; Sequence 1, Application US/08475391
; Patent No. 5786211
; GENERAL INFORMATION:
APPLICANT: Johnson, Philip R.
TITLE OF INVENTION: Adeno-Associated Virus Materials and
TITLE OF INVENTION: Methods
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 S. Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/475,391
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/254,358
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: No. 5786211and, Greta E.
REGISTRATION NUMBER: 35,302
REFERENCE/DOCKET NUMBER: 31975
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 474-6300
TELEFAX: (312) 474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 4680 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-475-391-1

Query Match   100.0%;   Score 145; DB 2;   Length 4680;
Best Local Similarity   100.0%;   Pred. No. 4.6e-30;
Matches 145;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

```
Qy   1 TTGGCCACTCCCTCTCTTGCGCGCCTCGCTCGCTCACTGAGGCGCGGGGGGGACCAAAGGTCGCC  60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 TTGGCCACTCCCTCTCTTGCGCGCCTCGCTCGCTCACTGAGGCGCGGGGGGGACCAAAGGTCGCC  60

Qy  61 CGACGCCCGGGCGGTTTGCCCGGGCGGGGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG  120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  61 CGACGCCCGGGCGGTTTGCCCGGGCGGGGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG  120

Qy 121 GCCAACTCCATCACTAGGGGTTCCT  145
        |||||||||||||||||||||||||
Db 121 GCCAACTCCATCACTAGGGGTTCCT  145
```

Search completed: March 15, 2006, 01:27:28
Job time : 96 secs

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 15, 2006, 11:04:21 ; Search time 458 Seconds (without alignments)
2618.035 Million cell updates/sec

Title:
Perfect score: 145
Sequence: 1 TTGGGCCACTCCCTCTCGG..............CTCCATCACTAGGGGTTCCT 145

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 413489005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications_NA_Main:*
1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
3: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq:*
4: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq:*
5: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
6: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
7: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
8: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
9: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Match Length	DB	DB ID	Description
1	145	100.0	145	3	US-09-782-378A-6	Sequence 6, Appli
2	145	100.0	145	8	US-10-837-029-1	Sequence 1, Appl
3	145	100.0	145	8	US-10-837-029-1	Sequence 11, Appl
4	145	100.0	146	9	US-10-501-756-12	Sequence 12, Appl
5	145	100.0	165	3	US-09-782-378A-8	Sequence 8, Appli
6	145	100.0	165	3	US-09-782-378A-8	Sequence 8, Appli
7	145	100.0	165	7	US-10-054-665-7	Sequence 7, Appli
8	145	100.0	165	7	US-10-159-968-13	Sequence 13, Appli
9	145	100.0	170	7	US-10-669-641-3	Sequence 3, Appli
10	145	100.0	175	7	US-10-276-356-1	Sequence 1, Appli
11	145	100.0	207	10	US-10-023-208-58	Sequence 58, Appl
12	145	100.0	955	3	US-09-845-416-26	Sequence 26, Appl
13	145	100.0	955	3	US-09-845-416-26	Sequence 26, Appl
14	145	100.0	987	3	US-09-845-416-32	Sequence 32, Appl
15	145	100.0	987	3	US-09-845-416-33	Sequence 33, Appl
16	145	100.0	4414	3	US-09-845-416-32	Sequence 32, Appl
17	145	100.0	4414	3	US-09-845-416-31	Sequence 31, Appl
18	145	100.0	4476	3	US-09-845-416-31	Sequence 31, Appl
19	145	100.0	4476	3	US-09-845-416-30	Sequence 30, Appl
20	145	100.0	4498	3	US-09-845-416-30	Sequence 30, Appl
21	145	100.0	4498	3	US-09-782-378A-1	Sequence 1, Appl
22	145	100.0	4675	3	US-09-782-378A-1	Sequence 1, Appl
23	145	100.0	4675	3	US-09-782-378A-2	Sequence 2, Appl
24	145	100.0	4675	5	US-10-240-198-1	Sequence 1, Appli
25	145	100.0	4675	6	US-10-291-583-7	Sequence 7, Appli
26	145	100.0	4675	7	US-10-427-129-2	Sequence 2, Appli
27	145	100.0	4679	3	US-09-804-898-1	Sequence 1, Appli
28	145	100.0	4679	10	US-09-944-681-10	Sequence 10, Appli
29	145	100.0	4679	12	US-10-038-972A-12	Sequence 12, Appli
30	145	100.0	4679	6	US-10-136-819-6	Sequence 6, Appli
31	145	100.0	4680	6	US-10-077-294-1	Sequence 1, Appli
32	145	100.0	4680	5	US-10-163-886-1	Sequence 1, Appli
33	145	100.0	4680	6	US-10-263-127-1	Sequence 1, Appli
34	145	100.0	4680	5	US-10-375-777-1	Sequence 1, Appli
35	145	100.0	4680	10	US-11-063-903-1	Sequence 1, Appli
36	145	100.0	4681	7	US-10-696-261-18	Sequence 18, Appl
37	145	100.0	4681	7	US-10-696-282-18	Sequence 18, Appl
38	145	100.0	4681	7	US-10-696-900-18	Sequence 18, Appl
39	145	100.0	4683	7	US-10-696-261-19	Sequence 19, Appl
40	145	100.0	4683	7	US-10-696-282-19	Sequence 19, Appl
41	145	100.0	4683	7	US-10-696-900-19	Sequence 19, Appl
42	145	100.0	4683	7	US-10-427-129-6	Sequence 6, Appl
43	145	100.0	4683	9	US-10-959-017-2	Sequence 2, Appl
44	145	100.0	4825	3	US-09-845-416-29	Sequence 29, Appl
45	145	100.0	4825	3	US-09-845-416-29	Sequence 29, Appl

ALIGNMENTS

RESULT 1
US-09-782-378A-6

Sequence 6, Application US/09782378A
; Patent No. US2002010273 1A1
; GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick
; APPLICANT: Bahou, Wadie
; APPLICANT: Sandalon, Ziv
; APPLICANT: Gnatenko, Dmitri
; TITLE OF INVENTION: Adenoviral Vectors
; FILE REFERENCE: STONYB-04970
; CURRENT APPLICATION NUMBER: US/09/782,378A
; CURRENT FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/237,747
; PRIOR APPLICATION FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
; LENGTH: 145
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-782-378A-6

Query Match 100.0%; Score 145; DB 3; Length 145;
Best Local Similarity 100.0%; Pred. No. 7.4e-35;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TTGGGCCACTCCCTCTCTGCGCGCTGCTGCTCACTGAGGCGCGGCGGACCAAAGGTCGCC 60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 TTGGGCCACTCCCTCTCTGCGCGCTGCTGCTCACTGAGGCGCGGCGGACCAAAGGTCGCC 60

Qy 61 CGAGGCCCCGGGCTTTGCCCGGGCGGGCCCTCAGTGAGCGAGCGAGCGCAGAGAGGGAGTG 120
       ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 61 CGAGGCCCCGGGCTTTGCCCGGGCGGGCCCTCAGTGAGCGAGCGAGCGCAGAGAGGGAGTG 120

Qy 121 GCCAACTCCATCACTAGGGGTTCCT 145
     |||||||||||||||||||||||||
Db 121 GCCAACTCCATCACTAGGGGTTCCT 145

RESULT 2
US-10-837-029-1

Sequence 1, Application US/10837029
; Publication No. US20040248301A1
; GENERAL INFORMATION:
; APPLICANT: Engelhardt, John F.

```
;  TITLE OF INVENTION: ADENO ASSOCIATED VIRUS VECTORS WITH
;  TITLE OF INVENTION: INTRAVECTOR HETEROLOGOUS TERMINAL PALINDROMIC SEQUENCES
;  FILE REFERENCE: 875.105US1
;  CURRENT APPLICATION NUMBER: US/10/837,029
;  CURRENT FILING DATE: 2004-04-30
;  PRIOR APPLICATION NUMBER: US 10/194,421
;  PRIOR FILING DATE: 2002-07-12
;  PRIOR APPLICATION NUMBER: US 60/305,204
;  PRIOR FILING DATE: 2001-07-13
;  NUMBER OF SEQ ID NOS: 11
;  SOFTWARE: FastSEQ for Windows Version 4.0
;  SEQ ID NO 1
;  LENGTH: 145
;  TYPE: DNA
;  ORGANISM: Adeno-associated virus
US-10-837-029-1

Query Match         100.0%;  Score 145;  DB 8;  Length 145;
Best Local Similarity  100.0%;  Pred. No. 7.4e-35;
Matches  145;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

Qy    1 TTGGCCACTCCCTCTCTCGCGCGCGCTCGCTCGCTCACTGAGGCCGCCCACCAAAAGGTCGCC 60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1 TTGGCCACTCCCTCTCTCGCGCGCGCTCGCTCGCTCACTGAGGCCGCCCACCAAAAGGTCGCC 60

Qy   61 CGACGCCCGGGGCTTTGCCCGGGGCGGGCGACGCGCCCGGGGCCGGGGCACCAAAAGGTCGCC 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CGACGCCCGGGGCTTTGCCCGGGGCGGGCGACGCGCCCGGGGCCGGGGCACCAAAAGGTCGCC 120

Qy  121 GCCAACTCCATCACTAGGGGTTCCT 145
        |||||||||||||||||||||||||
Db  121 GCCAACTCCATCACTAGGGGTTCCT 145
```

```
RESULT 3
US-10-837-029-11
; Sequence 11, Application US/10837029
; Publication No. US20040248301A1
; GENERAL INFORMATION:
;  APPLICANT: Engelhardt, John F.
;  TITLE OF INVENTION: ADENO ASSOCIATED VIRUS VECTORS WITH
;  TITLE OF INVENTION: INTRAVECTOR HETEROLOGOUS TERMINAL PALINDROMIC SEQUENCES
;  FILE REFERENCE: 875.105US1
;  CURRENT APPLICATION NUMBER: US/10/837,029
;  CURRENT FILING DATE: 2004-04-30
;  PRIOR APPLICATION NUMBER: US 10/194,421
;  PRIOR FILING DATE: 2002-07-12
;  PRIOR APPLICATION NUMBER: US 60/305,204
;  PRIOR FILING DATE: 2001-07-13
;  NUMBER OF SEQ ID NOS: 11
;  SOFTWARE: FastSEQ for Windows Version 4.0
;  SEQ ID NO 11
;  LENGTH: 145
;  TYPE: DNA
;  ORGANISM: Adeno-associated virus
US-10-837-029-11

Query Match         100.0%;  Score 145;  DB 8;  Length 145;
Best Local Similarity  100.0%;  Pred. No. 7.4e-35;
Matches  145;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

Qy    1 TTGGCCACTCCCTCTCTCGCGCGCGCTCGCTCGCTCACTGAGGCCGCCCACCAAAAGGTCGCC 60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1 TTGGCCACTCCCTCTCTCGCGCGCGCTCGCTCGCTCACTGAGGCCGCCCACCAAAAGGTCGCC 60

Qy   61 CGACGCCCGGGGCTTTGCCCGGGGCGGGCGACGCGCCCGGGGCCGGGGCACCAAAAGGTCGCC 120
Db   61 CGACGCCCGGGGCTTTGCCCGGGGCGGGCGACGCGCCCGGGGCCGGGGCACCAAAAGGTCGCC 120

Qy  121 GCCAACTCCATCACTAGGGGTTCCT 145
        |||||||||||||||||||||||||
Db  121 GCCAACTCCATCACTAGGGGTTCCT 145
```

```
RESULT 4
US-10-501-756-12
; Sequence 12, Application US/10501756
; Publication No. US20050011765A1
; GENERAL INFORMATION:
;  APPLICANT: Duke University
;  APPLICANT: Chuan-Yuan, Li
;  APPLICANT: Xiuwu, Zhang
;  TITLE OF INVENTION: GENERATION OF RECOMBINANT ADENO-ASSOCIATED VIRAL VECTORS BY A
;  TITLE OF INVENTION: COMPLETE ADENOVIRUS-MEDIATED APPROACH
;  FILE REFERENCE: 180/137
;  CURRENT APPLICATION NUMBER: US/10/501,756
;  CURRENT FILING DATE: 2004-07-16
;  PRIOR APPLICATION NUMBER: US 60/349,532
;  PRIOR FILING DATE: 2002-01-18
;  NUMBER OF SEQ ID NOS: 22
;  SOFTWARE: Patentin version 3.2
;  SEQ ID NO 12
;  LENGTH: 145
;  TYPE: DNA
;  ORGANISM: adeno-associated virus 2
US-10-501-756-12

Query Match         100.0%;  Score 145;  DB 9;  Length 145;
Best Local Similarity  100.0%;  Pred. No. 7.4e-35;
Matches  145;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

Qy    1 TTGGCCACTCCCTCTCTCGCGCGCGCTCGCTCGCTCACTGAGGCCGCCCACCAAAAGGTCGCC 60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1 TTGGCCACTCCCTCTCTCGCGCGCGCTCGCTCGCTCACTGAGGCCGCCCACCAAAAGGTCGCC 60

Qy   61 CGACGCCCGGGGCTTTGCCCGGGGCGGGCGACGCGCCCGGGGCCGGGGCACCAAAAGGTCGCC 120
Db   61 CGACGCCCGGGGCTTTGCCCGGGGCGGGCGACGCGCCCGGGGCCGGGGCACCAAAAGGTCGCC 120

Qy  121 GCCAACTCCATCACTAGGGGTTCCT 145
        |||||||||||||||||||||||||
Db  121 GCCAACTCCATCACTAGGGGTTCCT 145
```

```
RESULT 5
US-10-135-984-8
; Sequence 8, Application US/10135984
; Publication No. US20020182599A1
; GENERAL INFORMATION:
;  APPLICANT: Matthew D. Weitzman
;  APPLICANT: Anton J. Cathomen
;  TITLE OF INVENTION: METHOD OF IDENTIFYING CELLULAR
;  TITLE OF INVENTION: REGULATORS OF ADENO-ASSOCIATED VIRUS (AAV)
;  FILE REFERENCE: SALKINS.041A
;  CURRENT APPLICATION NUMBER: US/10/135,984
;  CURRENT FILING DATE: 2002-08-05
;  PRIOR APPLICATION NUMBER: 60/286951
;  PRIOR FILING DATE: 2001-04-27
;  NUMBER OF SEQ ID NOS: 8
;  SOFTWARE: FastSEQ for Windows Version 4.0
;  SEQ ID NO 8
;  LENGTH: 146
;  TYPE: DNA
;  ORGANISM: adeno-associated virus
US-10-135-984-8

Query Match         100.0%;  Score 145;  DB 5;  Length 146;
Best Local Similarity  100.0%;  Pred. No. 7.4e-35;
Matches  145;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

Qy    1 TTGGCCACTCCCTCTCTCGCGCGCGCTCGCTCGCTCACTGAGGCCGCCCACCAAAAGGTCGCC 60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1 TTGGCCACTCCCTCTCTCGCGCGCGCTCGCTCGCTCACTGAGGCCGCCCACCAAAAGGTCGCC 60

Qy   61 CGACGCCCGGGGCTTTGCCCGGGGCGGGCGACGCGCCCGGGGCCGGGGCACCAAAAGGTCGCC 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CGACGCCCGGGGCTTTGCCCGGGGCGGGCGACGCGCCCGGGGCCGGGGCACCAAAAGGTCGCC 120

Qy  121 GCCAACTCCATCACTAGGGGTTCCT 145
```

```
Db    61 CGACGCCCCGGGGCGTTTGCCCGGGCGCGGCCCTCAGTGAGCGAGCGAGCGGCCGGGGCGACCAAAAGGTCGCC 120
```

```
Qy   121 GCCAACTCCATCACTAGGGGTTCCT 145
         |||||||||||||||||||||||||
Db   121 GCCAACTCCATCACTAGGGGTTCCT 145
```

RESULT 6
US-09-782-378A-8
; Sequence 8, Application US/09782378A
; Patent No. US20020102731A1
; CURRENT APPLICATION NUMBER: US/09/782,378A
; CURRENT FILING DATE: 2001-02-12
; GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick
; APPLICANT: Bahou, Wadie
; APPLICANT: Sandalon, Ziv
; APPLICANT: Gnatenko, Dmitri
; PRIOR APPLICATION NUMBER: 60/237,747
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 8
; LENGTH: 165
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-782-378A-8

Query Match   100.0%;   Score 145; DB 3; Length 165;
Best Local Similarity   100.0%;   Pred. No. 7.2e-35;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy    1 TTGGCCACTCCCTCTCTCCGCGGCGCTCGCTCGCTCACTGAGGCCGCGGGCGGG 60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   21 TTGGCCACTCCCTCTCTCCGCGGCGCTCGCTCGCTCACTGAGGCCGCGGGCGGG 80

Qy   61 CGACGCCCCGGGGCGTTTGCCCGGGCGCGGCCCTCAGTGAGCGAGCGAGCGGCCGGGGCG 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   81 CGACGCCCCGGGGCGTTTGCCCGGGCGCGGCCCTCAGTGAGCGAGCGAGCGGCCGGGGCG 140

Qy  121 GCCAACTCCATCACTAGGGGTTCCT 145
        |||||||||||||||||||||||||
Db  141 GCCAACTCCATCACTAGGGGTTCCT 165
```

RESULT 7
US-10-054-665-7
; Sequence 7, Application US/10054665
; Publication No. US20020197237A1
; GENERAL INFORMATION:
; APPLICANT: Engelhardt, John F.
; APPLICANT: Duan, Dongsheng
; TITLE OF INVENTION: Adeno-associated virus vectors
; FILE REFERENCE: 875.007US2
; CURRENT APPLICATION NUMBER: US/10/054,665
; CURRENT FILING DATE: 2002-06-13
; PRIOR APPLICATION NUMBER: US 09/276,625
; PRIOR FILING DATE: 1999-03-25
; PRIOR APPLICATION NUMBER: US 60/086,166
; PRIOR FILING DATE: 1998-05-20
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 165
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: SEQ ID NO:1 of U.S. Patent No. 5,478,745
US-10-054-665-7

Query Match   100.0%;   Score 145; DB 5; Length 165;

Best Local Similarity   100.0%;   Pred. No. 7.2e-35;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy    1 TTGGCCACTCCCTCTCTCCGCGGCGCTCGCTCGCTCACTGAGGCCGCGGGCGGG 60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   21 TTGGCCACTCCCTCTCTCCGCGGCGCTCGCTCGCTCACTGAGGCCGCGGGCGGG 80

Qy   61 CGACGCCCCGGGGCGTTTGCCCGGGCGCGGCCCTCAGTGAGCGAGCGAGCGGCCGGGGCG 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   81 CGACGCCCCGGGGCGTTTGCCCGGGCGCGGCCCTCAGTGAGCGAGCGAGCGGCCGGGGCG 140

Qy  121 GCCAACTCCATCACTAGGGGTTCCT 145
        |||||||||||||||||||||||||
Db  141 GCCAACTCCATCACTAGGGGTTCCT 165
```

RESULT 8
US-10-159-968-13/c
; Sequence 13, Application US/10159968
; Publication No. US20030152914A1
; GENERAL INFORMATION:
; APPLICANT: Kaplitt, Michael G.
; APPLICANT: Musatov, Serge
; TITLE OF INVENTION: Method for Generating Replication
; TITLE OF INVENTION: Defective Viral Vectors That are Helper Free
; FILE REFERENCE: 600-1-286
; CURRENT APPLICATION NUMBER: US/10/159,968
; CURRENT FILING DATE: 2002-05-31
; PRIOR APPLICATION NUMBER: US 60/313,007
; PRIOR FILING DATE: 2001-08-07
; PRIOR APPLICATION NUMBER: US 60/294,797
; PRIOR FILING DATE: 2001-05-31
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 165
; TYPE: DNA
; ORGANISM: Adeno-associated virus
US-10-159-968-13

Query Match   100.0%;   Score 145; DB 6; Length 165;
Best Local Similarity   100.0%;   Pred. No. 7.2e-35;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy    1 TTGGCCACTCCCTCTCTCCGCGGCGCTCGCTCGCTCACTGAGGCCGCGGGCGGGGCG 60
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  145 TTGGCCACTCCCTCTCTCCGCGGCGCTCGCTCGCTCACTGAGGCCGCGGGCGGGGCG 86

Qy   61 CGACGCCCCGGGGCGTTTGCCCGGGCGCGGCCCTCAGTGAGCGAGCGAGCGGCCGGGGCGACCAAAAGGTCGCC 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   85 CGACGCCCCGGGGCGTTTGCCCGGGCGCGGCCCTCAGTGAGCGAGCGAGCGGCCGGGGCGACCAAAAGGTCGCC 26

Qy  121 GCCAACTCCATCACTAGGGGTTCCT 145
        |||||||||||||||||||||||||
Db   25 GCCAACTCCATCACTAGGGGTTCCT 1
```

RESULT 9
US-10-669-641-3
; Sequence 3, Application US/10669641
; Publication No. US20040137626A1
; GENERAL INFORMATION:
; APPLICANT: WAGNER, THOMAS E.
; APPLICANT: YU, XIANXHANG
; TITLE OF INVENTION: AAV ITR-MEDIATED MODULATION
; FILE REFERENCE: 038079-0165
; CURRENT APPLICATION NUMBER: US/10/669,641
; CURRENT FILING DATE: 2003-09-25
; PRIOR APPLICATION NUMBER: 60/413,450
; PRIOR FILING DATE: 2002-09-26
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: Patentin Ver. 3.2
; SEQ ID NO 3

Query Match   100.0%;   Score 145; DB 5; Length 165;

LENGTH: 170
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic AAV
OTHER INFORMATION: ITR nucleotide sequence
US-10-669-641-3

Query Match   100.0%; Score 145; DB 7; Length 170;
Best Local Similarity 100.0%; Pred. No. 7.2e-35;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy   1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC 60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC 60

Qy  61 CGACGCCCGGGCTTTGCCCGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  61 CGACGCCCGGGCTTTGCCCGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120

Qy 121 GCCAACTCCATCACTAGGGGGTTCCT 145
        ||||||||||||||||||||||||||
Db 121 GCCAACTCCATCACTAGGGGGTTCCT 145
```

RESULT 10
US-10-276-356-1/c
Sequence 1, Application US/10276356
Publication No. US20040029106A1
GENERAL INFORMATION:
APPLICANT: University of No. US20040029106A1th Carolina at Chapel Hill
APPLICANT: Samulski, R. Jude
APPLICANT: McCarty, Douglas M.
TITLE OF INVENTION: DUPLEXED PARVOVIRUS VECTORS
FILE REFERENCE: 5470-282
CURRENT APPLICATION NUMBER: US/10/276,356
CURRENT FILING DATE: 2001-05-31
PRIOR APPLICATION NUMBER: PCT/US01/17587
PRIOR FILING DATE: 2001-05-31
NUMBER OF SEQ ID NOS: 1
SOFTWARE: Patentin version 3.1
SEQ ID NO 1
LENGTH: 175
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Inverted terminal repeat from the AAV-2 vector plasmid pSub 201
US-10-276-356-1

Query Match   100.0%; Score 145; DB 7; Length 175;
Best Local Similarity 100.0%; Pred. No. 7.2e-35;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy   1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC 60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC 60

Qy  61 CGACGCCCGGGCTTTGCCCGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  61 CGACGCCCGGGCTTTGCCCGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120

Qy 121 GCCAACTCCATCACTAGGGGGTTCCT 145
        ||||||||||||||||||||||||||
Db 121 GCCAACTCCATCACTAGGGGGTTCCT 145
```

RESULT 11
US-10-023-208-58
Sequence 58, Application US/1002208
Publication No. US20030124537A1
GENERAL INFORMATION:
APPLICANT: Li, Min
APPLICANT: Liu, Yuan-Ching
TITLE OF INVENTION: PROCARYOTIC LIBRARIES AND USES
FILE REFERENCE: A-70174-1/RFT/RMS/RMK
CURRENT APPLICATION NUMBER: US/10/023,208
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 60/256,163
PRIOR FILING DATE: 2000-12-14
NUMBER OF SEQ ID NOS: 63
SOFTWARE: Patentin version 3.1
SEQ ID NO 58
LENGTH: 207
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Artificial sequence
OTHER INFORMATION: synthetic enzyme attachment site sequence
US-10-023-208-58

Query Match   100.0%; Score 145; DB 6; Length 207;
Best Local Similarity 100.0%; Pred. No. 7e-35;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy   1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC 60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  42 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC 101

Qy  61 CGACGCCCGGGCTTTGCCCGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 102 CGACGCCCGGGCTTTGCCCGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 161

Qy 121 GCCAACTCCATCACTAGGGGGTTCCT 145
        ||||||||||||||||||||||||||
Db 162 GCCAACTCCATCACTAGGGGGTTCCT 186
```

RESULT 12
US-09-845-416-26
Sequence 26, Application US/09845416
Publication No. US20030171312A1
GENERAL INFORMATION:
APPLICANT: XIAO, XIAO
TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
TITLE OF INVENTION: THEREOF
FILE REFERENCE: DE1142
CURRENT APPLICATION NUMBER: US/09/845,416
CURRENT FILING DATE: 2001-04-30
PRIOR APPLICATION NUMBER: 60/200,777
PRIOR FILING DATE: 2000-04-28
NUMBER OF SEQ ID NOS: 36
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 26
LENGTH: 955
TYPE: DNA
ORGANISM: Homo sapiens
US-09-845-416-26

Query Match   100.0%; Score 145; DB 3; Length 955;
Best Local Similarity 100.0%; Pred. No. 5.6e-35;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy   1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC 60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC 60

Qy  61 CGACGCCCGGGCTTTGCCCGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  61 CGACGCCCGGGCTTTGCCCGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120

Qy 121 GCCAACTCCATCACTAGGGGGTTCCT 145
        ||||||||||||||||||||||||||
Db 121 GCCAACTCCATCACTAGGGGGTTCCT 145
```

RESULT 13
US-09-845-416-26/c

; Sequence 26, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 26
; LENGTH: 955
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-26

Query Match   100.0%; Score 145; DB 3; Length 955;
Best Local Similarity 100.0%; Pred. No. 5.6e-35;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TTGGCCACTCCCTCTCTCTGGCGCGCCGCTTCGCTCTGCCTCACTGAGGCCCGGGCGACCAAAGGTCGCC 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   955 TTGGCCACTCCCTCTCTCTGGCGCGCCGCTTCGCTCTGCCTCACTGAGGCCCGGGCGACCAAAGGTCGCC 896

Qy   61 CGACGCGCCCGGGCGCTTTGCCCGGCGGCGGCGGCTTCAGTGAGCGAGCGAGCGAGAGGGAGGGAGTG 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   895 CGACGCGCCCGGGCGCTTTGCCCGGCGGCGGCGGCTTCAGTGAGCGAGCGAGCGAGAGGGAGGGAGTG 836

Qy   121 GCCAACTCCATCACTAGGGGGTTCCT 145
           |||||||||||||||||||||||||
Db   835 GCCAACTCCATCACTAGGGGGTTCCT 811

RESULT 14
US-09-845-416-33
; Sequence 33, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 33
; LENGTH: 987
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-33

Query Match   100.0%; Score 145; DB 3; Length 987;
Best Local Similarity 100.0%; Pred. No. 5.6e-35;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TTGGCCACTCCCTCTCTCTGGCGCGCCGCTTCGCTCTGCCTCACTGAGGCCCGGGCGACCAAAGGTCGCC 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 TTGGCCACTCCCTCTCTCTGGCGCGCCGCTTCGCTCTGCCTCACTGAGGCCCGGGCGACCAAAGGTCGCC 60

Qy   61 CGACGCGCCGGGGCTTTGCCCGGCGGCGGCGGCTTCAGTGAGCGAGCGAGCGAGAGGGAGGGAGTG 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CGACGCGCCGGGGCTTTGCCCGGCGGCGGCGGCTTCAGTGAGCGAGCGAGCGAGAGGGAGGGAGTG 120

Qy   121 GCCAACTCCATCACTAGGGGGTTCCT 145
           |||||||||||||||||||||||||
Db   121 GCCAACTCCATCACTAGGGGGTTCCT 145

RESULT 15
US-09-845-416-33/c
; Sequence 33, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 33
; LENGTH: 987
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-33

Query Match   100.0%; Score 145; DB 3; Length 987;
Best Local Similarity 100.0%; Pred. No. 5.6e-35;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TTGGCCACTCCCTCTCTCTGGCGCGCCGCTTCGCTCTGCCTCACTGAGGCCCGGGCGACCAAAGGTCGCC 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   987 TTGGCCACTCCCTCTCTCTGGCGCGCCGCTTCGCTCTGCCTCACTGAGGCCCGGGCGACCAAAGGTCGCC 928

Qy   61 CGACGCGCCCGGGCTTTGCCCGGCGGCGGCGCCTCAGTGAGCGAGCGAGCGAGAGGGAGGGAGTG 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   927 CGACGCGCCCGGGCTTTGCCCGGCGGCGGCGCCTCAGTGAGCGAGCGAGCGAGAGGGAGGGAGTG 868

Qy   121 GCCAACTCCATCACTAGGGGGTTCCT 145
           |||||||||||||||||||||||||
Db   867 GCCAACTCCATCACTAGGGGGTTCCT 843

Search completed: March 15, 2006, 11:12:08
Job time : 459 secs

GenCore version 5.1.7

Copyright (c) 1993 - 2006 Biocceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 15, 2006, 11:12:18 ; Search time 310 Seconds
                                             (without alignments)
                                             1090.637 Million cell updates/sec

Title: US-10-620-039-1
Perfect score: 145
Sequence: 1 TTGGCCACTCCCTCTCTGCG................CTCCATCACTAGGGGTTCCT 145

Scoring table: IDENTITY_NUC
                 Gapop 10.0 , Gapext 1.0

Searched: 802312 seqs, 1165852854 residues

Total number of hits satisfying chosen parameters: 16046624

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :   Published_Applications_NA_New:*
                 1: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq:*
                 2: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:*
                 3: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq:*
                 4: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq:*
                 5: /cgn2_6/ptodata/1/pubpna/US05_NEW_PUB.seq:*
                 6: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq:*
                 7: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq:*
                 8: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq1:*
                 9: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq2:*
                 10: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq:*
                 11: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq1:*
                 12: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq1:*
                 13: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Match Length	DB	ID	Description
1	145	100.0	145	12	US-11-127-832-6	Sequence 6, Appli
2	145	100.0	165	12	US-11-058-751-7	Sequence 7, Appli
3	145	100.0	165	12	US-11-127-832-8	Sequence 8, Appli
4	145	100.0	464	12	US-11-157-608-9	Sequence 9, Appli
5	145	100.0	698	12	US-11-157-608-8	Sequence 8, Appl
6	145	100.0	803	12	US-11-157-608-11	Sequence 11, Appl
7	145	100.0	803	12	US-11-157-608-11	Sequence 11, Appl
8	145	100.0	1271	12	US-11-157-608-10	Sequence 10, Appl
9	145	100.0	1271	12	US-11-157-608-10	Sequence 10, Appl
10	145	100.0	4675	12	US-11-127-832-1	Sequence 1, Appl
11	145	100.0	4675	12	US-11-184-380-25	Sequence 25, Appl
12	145	100.0	4679	12	US-11-127-832-2	Sequence 2, Appl
13	145	100.0	4679	12	US-11-145-035-12	Sequence 12, Appl
14	145	100.0	4683	12	US-11-145-035-25	Sequence 25, Appl
15	143.4	98.9	272	12	US-11-058-751-4	Sequence 4, Appl
16	138.6	95.6	272	12	US-11-058-751-6	Sequence 6, Appl
17	124.2	85.7	272	12	US-11-058-751-6	Sequence 6, Appl
18	119.4	82.3	272	12	US-11-058-751-4	Sequence 4, Appl
19	117.8	81.2	165	12	US-11-058-751-7	Sequence 7, Appli
20	117.8	81.2	464	12	US-11-157-608-9	Sequence 9, Appli
21	117.8	81.2	698	12	US-11-157-608-8	Sequence 8, Appli
22	117.8	81.2	165	12	US-11-127-832-1	Sequence 1, Appli
23	117.8	81.2	165	12	US-11-127-832-2	Sequence 2, Appli
24	117.8	81.2	4675	12	US-11-184-380-25	Sequence 25, Appl
25	117.8	81.2	4679	12	US-11-145-035-12	Sequence 12, Appl
26	114.4	78.9	300	12	US-11-058-751-5	Sequence 5, Appli
27	110.6	76.3	4722	12	US-11-145-035-21	Sequence 21, Appl
28	110	75.9	4999	8	US-10-632-645-14	Sequence 14, Appl
29	110	75.9	4999	8	US-10-632-645-14	Sequence 14, Appl
30	110	75.9	11933	8	US-10-632-645-13	Sequence 13, Appl
31	109.6	75.6	11933	8	US-10-632-645-13	Sequence 13, Appl
32	109.6	75.6	4722	12	US-11-145-035-21	Sequence 21, Appl
33	109	75.2	334	12	US-11-058-751-14	Sequence 14, Appl
34	109	75.2	334	12	US-11-058-751-14	Sequence 14, Appl
35	109	75.2	505	12	US-11-058-751-3	Sequence 3, Appli
36	109	75.2	505	12	US-11-058-751-3	Sequence 3, Appli
37	108.8	75.0	4721	12	US-11-145-035-37	Sequence 37, Appl
38	107.4	74.1	4718	12	US-11-145-035-19	Sequence 19, Appl
39	105	72.4	345	12	US-11-058-751-9	Sequence 9, Appli
40	104.2	71.9	4683	12	US-11-145-035-25	Sequence 25, Appl
41	100.8	69.5	4721	12	US-11-145-035-37	Sequence 37, Appl
42	100.8	69.5	4767	12	US-11-145-035-23	Sequence 23, Appl
43	100.8	69.5	4768	8	US-10-719-311-1	Sequence 1, Appl
44	99.8	68.6	4718	12	US-11-145-035-19	Sequence 19, Appl
45	97.8	67.4	145	12	US-11-127-832-6	Sequence 6, Appli

ALIGNMENTS

RESULT 1
US-11-127-832-6

; Sequence 6, Application US/11127832
; Publication No. US20060008884A1
; GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick
; APPLICANT: Bahou, Wadie
; APPLICANT: Sandalon, Ziv
; APPLICANT: Gnatenko, Dmitri
; TITLE OF INVENTION: Adenoviral Vectors
; FILE REFERENCE: STONYB-04970
; CURRENT APPLICATION NUMBER: US/11/127,832
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US/09/782,378
; PRIOR APPLICATION NUMBER: US/09/782,378
; PRIOR FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/237,747
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
; LENGTH: 145
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-127-832-6

Query Match   100.0%; Score 145; DB 12; Length 145;
Best Local Similarity   100.0%;
Matches 145; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 TTGGCCACTCCCTCTCTGCGGGCGGCGGGCCTGCCTCGCTCACTGAGGCGGGCGGGGCGCC 60
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 TTGGCCACTCCCTCTCTGCGGGCGGCGGGCCTGCCTCGCTCACTGAGGCGGGCGGGGCGCC 60

Qy   61 CGACCGCCCGGGCCTTTGCCCCGGGCGGCCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGG 120
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CGACCGCCCGGGCCTTTGCCCCGGGCGGCCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGG 120

Qy   121 GCCAACTCCATCACTAGGGGTTCCT 145
            |||||||||||||||||||||||||
Db   121 GCCAACTCCATCACTAGGGGTTCCT 145

RESULT 2

US-11-058-751-7
Sequence 7, Application US/11058751
; Publication No. US20050255087A1
; GENERAL INFORMATION:
; APPLICANT: Engelhardt, John F.
; APPLICANT: Duan, Dongshen
; APPLICANT: University of Iowa Research Foundation
; TITLE OF INVENTION: Adeno-associated virus vectors
; FILE REFERENCE: 875.007US2
; CURRENT APPLICATION NUMBER: US/11/058,751
; CURRENT FILING DATE: 2005-02-15
; PRIOR APPLICATION NUMBER: CURRENT APPLICATION NUMBER: US/10/054,665
; PRIOR APPLICATION FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: US 60/086,166
; PRIOR APPLICATION FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 09/276,625
; PRIOR APPLICATION FILING DATE: 1999-03-25
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 165
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: SEQ ID NO:1 of U.S. Patent No. 5,478,745
US-11-058-751-7

Query Match   100.0%; Score 145; DB 12; Length 165;
Best Local Similarity   100.0%; Pred. No. 1.8e-31;
Matches 145; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

```
Qy       1 TTGGCCACTCCCTCTCTGCGGCGTCGCTCGCTCACTGAGGCGGCCCGGGCGTCGGC 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      21 TTGGCCACTCCCTCTCTGCGGCGTCGCTCGCTCACTGAGGCGGCCCGGGCGTCGGC 80

Qy      61 CGACGCCCGGGCTTTGCCCGGGCGGCCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      81 CGACGCCCGGGCTTTGCCCGGGCGGCCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 140

Qy     121 GCCAACTCCATCACTAGGGGTTCCT 145
           |||||||||||||||||||||||||
Db     141 GCCAACTCCATCACTAGGGGTTCCT 165
```

RESULT 3
US-11-127-832-8
Sequence 8, Application US/11127832
; Publication No. US20060008884A1
; GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick
; APPLICANT: Bahou, Wadie
; APPLICANT: Sandalon, Ziv
; APPLICANT: Gnatenko, Dmitri
; TITLE OF INVENTION: Adenoviral Vectors
; FILE REFERENCE: STONYB-04970
; CURRENT APPLICATION NUMBER: US/11/127,832
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US/09/782,378
; PRIOR APPLICATION FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/237,747
; PRIOR APPLICATION FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 8
; LENGTH: 165
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-127-832-8

Query Match   100.0%; Score 145; DB 12; Length 165;
Best Local Similarity   100.0%; Pred. No. 1.8e-31;
Matches 145; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

```
Qy       1 TTGGCCACTCCCTCTCTGCGGCGTCGCTCGCTCACTGAGGCGGCCCGGGCGTCGGC 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      21 TTGGCCACTCCCTCTCTGCGGCGTCGCTCGCTCACTGAGGCGGCCCGGGCGTCGGC 80

Qy      61 CGACGCCCGGGCTTTGCCCGGGCGGCCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      81 CGACGCCCGGGCTTTGCCCGGGCGGCCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 140

Qy     121 GCCAACTCCATCACTAGGGGTTCCT 145
           |||||||||||||||||||||||||
Db     141 GCCAACTCCATCACTAGGGGTTCCT 165
```

RESULT 4
US-11-157-608-9
Sequence 9, Application US/11157608
; Publication No. US20060018882A1
; GENERAL INFORMATION:
; APPLICANT: KAEMMERER, William F.
; TITLE OF INVENTION: MEDICAL DEVICES AND METHODS FOR DELIVERING COMPOSITIONS TO CELLS
; FILE REFERENCE: 134.02160101
; CURRENT APPLICATION NUMBER: US/11/157,608
; CURRENT FILING DATE: 2005-06-21
; PRIOR APPLICATION NUMBER: 60/581,730
; PRIOR APPLICATION FILING DATE: 2004-06-21
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 9
; LENGTH: 464
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial AAV vector
US-11-157-608-9

Query Match   100.0%; Score 145; DB 12; Length 464;
Best Local Similarity   100.0%; Pred. No. 1.7e-31;
Matches 145; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

```
Qy       1 TTGGCCACTCCCTCTCTGCGGCGTCGCTCGCTCACTGAGGCGGCCCGGGCGTCGGC 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1 TTGGCCACTCCCTCTCTGCGGCGTCGCTCGCTCACTGAGGCGGCCCGGGCGTCGGC 60

Qy      61 CGACGCCCGGGCTTTGCCCGGGCGGCCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      61 CGACGCCCGGGCTTTGCCCGGGCGGCCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120

Qy     121 GCCAACTCCATCACTAGGGGTTCCT 145
           |||||||||||||||||||||||||
Db     121 GCCAACTCCATCACTAGGGGTTCCT 145
```

RESULT 5
US-11-157-608-8
Sequence 8, Application US/11157608
; Publication No. US20060018882A1
; GENERAL INFORMATION:
; APPLICANT: KAEMMERER, William F.
; TITLE OF INVENTION: MEDICAL DEVICES AND METHODS FOR DELIVERING COMPOSITIONS TO CELLS
; FILE REFERENCE: 134.02160101
; CURRENT APPLICATION NUMBER: US/11/157,608
; CURRENT FILING DATE: 2005-06-21
; PRIOR APPLICATION NUMBER: 60/581,730
; PRIOR APPLICATION FILING DATE: 2004-06-21
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 8
; LENGTH: 698
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial AAV vector
US-11-157-608-8

RESULT 6
US-11-157-608-11
; Sequence 11, Application US/11157608
; Publication No. US20060018882A1
; GENERAL INFORMATION:
; APPLICANT: KAEMMERER, William F.
; TITLE OF INVENTION: MEDICAL DEVICES AND METHODS FOR DELIVERING COMPOSITIONS TO CELLS
; FILE REFERENCE: 134.02160101
; CURRENT APPLICATION NUMBER: US/11/157,608
; CURRENT FILING DATE: 2005-06-21
; PRIOR APPLICATION NUMBER: 60/581,730
; PRIOR APPLICATION FILING DATE: 2004-06-21
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 11
; LENGTH: 803
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial AAV vector
US-11-157-608-11

Query Match   100.0%; Score 145; DB 12; Length 698;
Best Local Similarity   100.0%; Pred. No. 1.6e-31;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy    1  TTGGCCACTCCCTCTCTGCGCGGTCGCCTCGCCTCACTGAGGCCGGGCCGGGGACCAAAAGGTCGCC  60
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1  TTGGCCACTCCCTCTCTGCGCGGTCGCCTCGCCTCACTGAGGCCGGGCCGGGGACCAAAAGGTCGCC  60

Qy   61  CGACGCCCCGGGCGGCCGGCCTTTGCCCGGGGACGCGGCGGCCGCAGAGAGGAGGGAGTG  120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61  CGACGCCCCGGGCGGCCGGCCTTTGCCCGGGGACGCGGCGGCCGCAGAGAGGAGGGAGTG  120

Qy  121  GCCAACTCCATCACTAGGGGGTTCCT  145
         ||||||||||||||||||||||||||
Db  121  GCCAACTCCATCACTAGGGGGTTCCT  145
```

RESULT 7
US-11-157-608-11/c
; Sequence 11, Application US/11157608
; Publication No. US20060018882A1
; GENERAL INFORMATION:
; APPLICANT: KAEMMERER, William F.
; TITLE OF INVENTION: MEDICAL DEVICES AND METHODS FOR DELIVERING COMPOSITIONS TO CELLS
; FILE REFERENCE: 134.02160101
; CURRENT APPLICATION NUMBER: US/11/157,608
; CURRENT FILING DATE: 2005-06-21
; PRIOR APPLICATION NUMBER: 60/581,730

Query Match   100.0%; Score 145; DB 12; Length 803;
Best Local Similarity   100.0%; Pred. No. 1.6e-31;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy    1  TTGGCCACTCCCTCTCTGCGCGGCTCGGCTCGCCTCAGTTCACTGAGGCCGGGCGGGGGACCAAAAGGTCGCC  60
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1  TTGGCCACTCCCTCTCTGCGCGGCTCGGCTCGCCTCAGTTCACTGAGGCCGGGCGGGGGACCAAAAGGTCGCC  60

Qy   61  CGACGCCCCGGGCGGCCTTTGCCCGGGGACGCGGCGGCCGCTCAGTGAGGGAGAGCGCGGGAGTG  120
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61  CGACGCCCCGGGCGGCCTTTGCCCGGGGACGCGGCGGCCGCTCAGTGAGGGAGAGCGCGGGAGTG  120

Qy  121  GCCAACTCCATCACTAGGGGGTTCCT  145
         ||||||||||||||||||||||||||
Db  121  GCCAACTCCATCACTAGGGGGTTCCT  145
```

RESULT 8
US-11-157-608-10
; Sequence 10, Application US/11157608
; Publication No. US20060018882A1
; GENERAL INFORMATION:
; APPLICANT: KAEMMERER, William F.
; TITLE OF INVENTION: MEDICAL DEVICES AND METHODS FOR DELIVERING COMPOSITIONS TO CELLS
; FILE REFERENCE: 134.02160101
; CURRENT APPLICATION NUMBER: US/11/157,608
; CURRENT FILING DATE: 2005-06-21
; PRIOR APPLICATION NUMBER: 60/581,730
; PRIOR APPLICATION FILING DATE: 2004-06-21
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 10
; LENGTH: 1271
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial AAV vector
US-11-157-608-10

Query Match   100.0%; Score 145; DB 12; Length 1271;
Best Local Similarity   100.0%; Pred. No. 1.6e-31;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy    1  TTGGCCACTCCCTCTCTGCGCGGTCGCCTCGCCTCACTGAGGCCGGGCCGGGGACCAAAAGGTCGCC   60
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  803  TTGGCCACTCCCTCTCTGCGCGGTCGCCTCGCCTCACTGAGGCCGGGCCGGGGACCAAAAGGTCGCC  744

Qy   61  CGACGCCCCGGGCGGCCTTTGCCCGGGGACGCGGCGGCCGCTCAGTGAGGGAGAGCGCGGGAGTG   120
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  743  CGACGCCCCGGGCGGCCTTTGCCCGGGGACGCGGCGGCCGCTCAGTGAGGGAGAGCGCGGGAGTG   684

Qy  121  GCCAACTCCATCACTAGGGGGTTCCT  145
         ||||||||||||||||||||||||||
Db  683  GCCAACTCCATCACTAGGGGGTTCCT  659
```

RESULT 9
US-11-157-608-10/c
; Sequence 10, Application US/11157608
; Publication No. US20060018882A1
; GENERAL INFORMATION:
; APPLICANT: KAEMMERER, William F.
; TITLE OF INVENTION: MEDICAL DEVICES AND METHODS FOR DELIVERING COMPOSITIONS TO CELLS
; FILE REFERENCE: 134.02160101
; CURRENT APPLICATION NUMBER: US/11/157,608
; CURRENT FILING DATE: 2005-06-21
; PRIOR APPLICATION NUMBER: 60/581,730

Query Match   100.0%; Score 145; DB 12; Length 1271;
Best Local Similarity   100.0%; Pred. No. 1.5e-31;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy    1  TTGGCCACTCCCTCTCTGCGCGGTCGCCTCGCCTCACTGAGGCCGGGCCGGGGACCAAAAGGTCGCC  60
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1  TTGGCCACTCCCTCTCTGCGCGGTCGCCTCGCCTCACTGAGGCCGGGCCGGGGACCAAAAGGTCGCC  60

Qy   61  CGACGCCCCGGGCGGCCTTTGCCCGGGGACGCGGCGGCCGCTCAGTGAGGGAGAGCGCGGGAGTG  120
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61  CGACGCCCCGGGCGGCCTTTGCCCGGGGACGCGGCGGCCGCTCAGTGAGGGAGAGCGCGGGAGTG  120

Qy  121  GCCAACTCCATCACTAGGGGGTTCCT  145
         ||||||||||||||||||||||||||
Db  121  GCCAACTCCATCACTAGGGGGTTCCT  145
```

```
;  PRIOR FILING DATE: 2004-06-21
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: Patentin version 3.2
;
;  SEQ ID NO 10
;  LENGTH: 1271
;  TYPE: DNA
;  ORGANISM: Artificial
;  FEATURE:
;  OTHER INFORMATION: Artificial AAV vector

US-11-157-608-10

Query Match             100.0%;  Score 145; DB 12;  Length 1271;
Best Local Similarity   100.0%;  Pred. No. 1.5e-31;
Matches 145;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy      1 TTGGCCACTCCCTCTTCTGCGCGCTCGCTCACTGAGGCCGCCGGGACCAAAAGGTCGCC 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1271 TTGGCCACTCCCTCTTCTGCGCGCTCGCTCACTGAGGCCGCCGGGACCAAAAGGTCGCC 1212

Qy     61 CGACGCCCGGGCTTTGCCCGGGGCGGGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1211 CGACGCCCGGGCTTTGCCCGGGGCGGGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 1152

Qy    121 GCCAACTCCATCACTAGGGGGTTCCT 145
          |||||||||||||||||||||||||
Db   1151 GCCAACTCCATCACTAGGGGGTTCCT 1127
```

```
RESULT 10
US-11-127-832-1
;  Sequence 1, Application US/11127832
;  Publication No. US20060008884A1
;  GENERAL INFORMATION:
;  APPLICANT: Hearing, Patrick
;  APPLICANT: Bahou, Wadie
;  APPLICANT: Sandalon, Ziv
;  APPLICANT: Gnatenko, Dmitri
;  TITLE OF INVENTION: Adenoviral Vectors
;  FILE REFERENCE: STONYB-04970
;  CURRENT APPLICATION NUMBER: US/11/127,832
;  CURRENT FILING DATE: 2005-05-12
;  PRIOR APPLICATION NUMBER: US/09/782,378
;  PRIOR FILING DATE: 2001-02-12
;  PRIOR APPLICATION NUMBER: 60/237,747
;  PRIOR FILING DATE: 2000-10-02
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: Patentin version 3.0
;
;  SEQ ID NO 1
;  LENGTH: 4675
;  TYPE: DNA
;  ORGANISM: Human adeno-associated virus 2

US-11-127-832-1

Query Match             100.0%;  Score 145; DB 12;  Length 4675;
Best Local Similarity   100.0%;  Pred. No. 1.4e-31;
Matches 145;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy      1 TTGGCCACTCCCTCTTCTGCGCGCTCGCTCACTGAGGCCGCCGGGACCAAAAGGTCGCC 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1 TTGGCCACTCCCTCTTCTGCGCGCTCGCTCACTGAGGCCGCCGGGACCAAAAGGTCGCC 60

Qy     61 CGACGCCCGGGCTTTGCCCGGGGCGGGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61 CGACGCCCGGGCTTTGCCCGGGGCGGGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120

Qy    121 GCCAACTCCATCACTAGGGGGTTCCT 145
          |||||||||||||||||||||||||
Db    121 GCCAACTCCATCACTAGGGGGTTCCT 145
```

```
RESULT 11
US-11-127-832-2
;  Sequence 2, Application US/11127832
```

```
;  Publication No. US20060008884A1
;  GENERAL INFORMATION:
;  APPLICANT: Hearing, Patrick
;  APPLICANT: Bahou, Wadie
;  APPLICANT: Sandalon, Ziv
;  APPLICANT: Gnatenko, Dmitri
;  TITLE OF INVENTION: Adenoviral Vectors
;  FILE REFERENCE: STONYB-04970
;  CURRENT APPLICATION NUMBER: US/11/127,832
;  CURRENT FILING DATE: 2005-05-12
;  PRIOR APPLICATION NUMBER: US/09/782,378
;  PRIOR FILING DATE: 2001-02-12
;  PRIOR APPLICATION NUMBER: 60/237,747
;  PRIOR FILING DATE: 2000-10-02
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: Patentin version 3.0
;
;  SEQ ID NO 2
;  LENGTH: 4675
;  TYPE: DNA
;  ORGANISM: Human adeno-associated virus 2

US-11-127-832-2

Query Match             100.0%;  Score 145; DB 12;  Length 4675;
Best Local Similarity   100.0%;  Pred. No. 1.4e-31;
Matches 145;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy      1 TTGGCCACTCCCTCTTCTGCGCGCTCGCTCACTGAGGCCGCCGGGACCAAAAGGTCGCC 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1 TTGGCCACTCCCTCTTCTGCGCGCTCGCTCACTGAGGCCGCCGGGACCAAAAGGTCGCC 60

Qy     61 CGACGCCCGGGCTTTGCCCGGGGCGGGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61 CGACGCCCGGGCTTTGCCCGGGGCGGGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120

Qy    121 GCCAACTCCATCACTAGGGGGTTCCT 145
          |||||||||||||||||||||||||
Db    121 GCCAACTCCATCACTAGGGGGTTCCT 145
```

```
RESULT 12
US-11-184-380-25
;  Sequence 25, Application US/11184380
;  Publication No. US20050025089A1
;  GENERAL INFORMATION:
;  APPLICANT: Chiorini, John
;  APPLICANT: Kotin, Robert M.
;  TITLE OF INVENTION: AAV5 NUCLEIC ACIDS
;  FILE REFERENCE: 14014.0323U3
;  CURRENT APPLICATION NUMBER: US/11/184,380
;  CURRENT FILING DATE: 2005-07-19
;  PRIOR APPLICATION NUMBER: PCT/US99/11958
;  PRIOR FILING DATE: 1999-05-28
;  PRIOR APPLICATION NUMBER: 60/087,029
;  PRIOR FILING DATE: 1998-05-28
;  NUMBER OF SEQ ID NOS: 26
;  SOFTWARE: FastSEQ for Windows Version 4.0
;
;  SEQ ID NO 25
;  LENGTH: 4679
;  TYPE: DNA
;  ORGANISM: Artificial Sequence
;  FEATURE:
;  OTHER INFORMATION: Description of Artificial Sequence; Note =
;  OTHER INFORMATION: synthetic construct

US-11-184-380-25

Query Match             100.0%;  Score 145; DB 12;  Length 4679;
Best Local Similarity   100.0%;  Pred. No. 1.4e-31;
Matches 145;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy      1 TTGGCCACTCCCTCTTCTGCGCGCTCGCTCACTGAGGCCGCCGGGACCAAAAGGTCGCC 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1 TTGGCCACTCCCTCTTCTGCGCGCTCGCTCACTGAGGCCGCCGGGACCAAAAGGTCGCC 60
```

```
Qy    61  CGACGCCCCGGCGTTTTGCCCGGCGGCCGCTCAGTGAGCGAGCGAGCGCGGGCAGAGAGGAGTG 120
              ||||||||| |||||||||||||||||||||||||||||||||||||||||||||||||
Db    61  CGACGCCCGGGCGTTTCCCCGGCGGCCCTCAGTGAGCGAGCGAGCGCGGGCAGAGAGGAGTG 120

Qy   121  GCCAACTCCATCACTAGGGGTTCCT 145
          |||||||||||||||||||||||||
Db   121  GCCAACTCCATCACTAGGGGTTCCT 145
```

RESULT 13
US-11-145-035-12
; Sequence 12, Application US/11145035
; Publication No. US20050287122A1
; GENERAL INFORMATION:
; APPLICANT: Bartlett et al.
; TITLE OF INVENTION: AAV VECTORS AND METHODS
; FILE REFERENCE: 28335/41335
; CURRENT APPLICATION NUMBER: US/11/145,035
; CURRENT FILING DATE:
; PRIOR APPLICATION NUMBER: US 10/038,972
; PRIOR FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: US 60/260,124
; PRIOR FILING DATE: 2001-01-05
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 12
; LENGTH: 4679
; TYPE: DNA
; ORGANISM: adeno-associated virus 2

  Query Match   100.0%; Score 145; DB 12; Length 4679;
  Best Local Similarity   100.0%;
  Matches 145; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

```
Qy     1  TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGCCCGGGCGTCGCC  60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1  TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGCCCGGGCGTCGCC  60

Qy    61  CGACGCCCGGGCGTTTGCCCGGCGGCCGCTCAGTGAGCGAGCGAGCGCGGGCAGAGAGGAGTG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61  CGACGCCCGGGCGTTTGCCCGGCGGCCGCTCAGTGAGCGAGCGAGCGCGGGCAGAGAGGAGTG 120

Qy   121  GCCAACTCCATCACTAGGGGTTCCT 145
          |||||||||||||||||||||||||
Db   121  GCCAACTCCATCACTAGGGGTTCCT 145
```

RESULT 14
US-11-145-035-25
; Sequence 25, Application US/11145035
; Publication No. US20050287122A1
; GENERAL INFORMATION:
; APPLICANT: Bartlett et al.
; TITLE OF INVENTION: AAV VECTORS AND METHODS
; FILE REFERENCE: 28335/41335
; CURRENT APPLICATION NUMBER: US/11/145,035
; CURRENT FILING DATE: 2005-06-03
; PRIOR APPLICATION NUMBER: US 10/038,972
; PRIOR FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: US 60/260,124
; PRIOR FILING DATE: 2001-01-05
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 25
; LENGTH: 4683
; TYPE: DNA
; ORGANISM: Adeno-associate virus 6

  Query Match   100.0%; Score 145; DB 12; Length 4683;
  Best Local Similarity   100.0%;
  Matches 145; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

RESULT 15
US-11-058-751-4
; Sequence 4, Application US/11058751
; Publication No. US20050255087A1
; GENERAL INFORMATION:
; APPLICANT: Engelhardt, John F.
; APPLICANT: Duan, Dongshen
; APPLICANT: University of Iowa Research Foundation
; TITLE OF INVENTION: Adeno-associated virus vectors
; FILE REFERENCE: 875.007US2
; CURRENT APPLICATION NUMBER: US/11/058,751
; CURRENT FILING DATE: 2005-02-15
; PRIOR APPLICATION NUMBER: CURRENT APPLICATION NUMBER: US/10/054,665
; PRIOR FILING DATE: 1999-03-25
; PRIOR APPLICATION NUMBER: US 60/276,625
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: US 60/086,166
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 09/276,625
; PRIOR FILING DATE: 1999-03-25
; SOFTWARE: FastSEQ for Windows Version 4.0
; NUMBER OF SEQ ID NOS: 14
; SEQ ID NO 4
; LENGTH: 272
; TYPE: DNA
; ORGANISM: AAV circular intermediate, clone p81

  Query Match   98.9%; Score 143.4; DB 12; Length 272;
  Best Local Similarity   99.3%;
  Matches 144; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

```
Qy     1  TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGCCCGGGCGACCAAAAGGTCGCC  60
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||| |||||
Db    69  TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGCCCGGGGCGACCAAAAGGTCGCC 128

Qy    61  CGACGCCCGGGCGTTTGCCCGGCGGCCCTCAGTGAGCGAGCGAGCGCGGGCAGAGAGGAGTG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   129  CGACGCCCGGGGCGTTTGCCCGGCGGCCCTCAGTGAGCGAGCGAGCGCGGGCAGAGAGGAGTG 188

Qy   121  GCCAACTCCATCACTAGGGGTTCCT 145
          |||||||||||||||||||||||||
Db   189  GCCAACTCCATCACTAGGGGTTCCT 213
```

Search completed: March 15, 2006, 11:17:35
Job time : 311 secs

OM nucleic - nucleic search, using sw model

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

Run on: March 12, 2006, 03:08:09

Title: US-10-620-039-1_COPY_1_125
Perfect score: 125
Sequence: 1 TTGGCCACTCCCTCTCTCTGCG.........CGCAGAGGAGGAGTGGCCAA 125
Scoring table: IDENTITY_NUC
               Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :   Issued_Patents_NA:*
               1: /cgn2_6/ptodata/1/ina/1_COMB.seq:*
               2: /cgn2_6/ptodata/1/ina/5_COMB.seq:*
               3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
               4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
               5: /cgn2_6/ptodata/1/ina/H_COMB.seq:*
               6: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
               7: /cgn2_6/ptodata/1/ina/PP_COMB.seq:*
               8: /cgn2_6/ptodata/1/ina/RE_COMB.seq:*
               9: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	125	100.0	145	2	US-07-789-917A-1	Sequence 1, Appli
2	125	100.0	145	3	US-08-702-573-4	Sequence 4, Appl
c 3	125	100.0	145	3	US-08-525-866-1	Sequence 1, Appl
c 4	125	100.0	145	3	US-07-982-193-1	Sequence 1, Appl
5	125	100.0	165	3	US-09-782-378A-6	Sequence 6, Appl
6	125	100.0	165	2	US-07-989-841A-1	Sequence 1, Appl
7	125	100.0	165	2	US-08-440-738A-1	Sequence 1, Appl
8	125	100.0	165	2	US-09-471-914-1	Sequence 1, Appl
9	125	100.0	165	3	US-09-276-625-7	Sequence 7, Appl
10	125	100.0	165	3	US-10-054-665A-7	Sequence 7, Appl
11	125	100.0	165	3	US-09-782-378A-8	Sequence 8, Appl
12	125	100.0	192	1	US-08-702-573-3	Sequence 3, Appl
13	125	100.0	4675	3	US-09-782-378A-1	Sequence 1, Appl
14	125	100.0	4675	2	US-09-782-378A-2	Sequence 2, Appl
15	125	100.0	4679	3	US-10-038-972A-12	Sequence 12, Appl
16	125	100.0	4680	2	US-08-254-358-1	Sequence 1, Appl
17	125	100.0	4680	3	US-09-475-391-1	Sequence 1, Appl
18	125	100.0	4680	2	US-08-709-609-1	Sequence 1, Appl
19	125	100.0	4680	6	PCT-US95-07178-1	Sequence 1, Appl
20	125	100.0	4681	3	US-09-807-802A-18	Sequence 18, Appl
21	125	100.0	4683	3	US-09-807-802A-19	Sequence 19, Appl
22	125	100.0	5932	3	US-09-299-141-4	Sequence 4, Appl
c 23	125	100.0	5932	3	US-09-299-141-4	Sequence 4, Appl
c 24	125	100.0	6142	3	US-09-299-141-8	Sequence 8, Appl
c 25	125	100.0	6142	3	US-09-299-141-8	Sequence 8, Appli
c 26	125	100.0	6253	3	US-08-893-327-15	Sequence 15, Appl
c 27	125	100.0	6253	3	US-08-893-327-15	Sequence 15, Appl
c 28	125	100.0	6280	3	US-08-893-327-17	Sequence 17, Appl
c 29	125	100.0	6280	3	US-08-893-327-17	Sequence 17, Appl
c 30	125	100.0	6280	3	US-08-893-327-19	Sequence 19, Appl
c 31	125	100.0	6280	3	US-08-893-327-19	Sequence 19, Appl
c 32	125	100.0	6565	3	US-09-299-141-1	Sequence 1, Appl
c 33	125	100.0	6565	3	US-09-299-141-1	Sequence 1, Appl
c 34	125	100.0	6714	3	US-09-299-141-6	Sequence 6, Appl
c 35	125	100.0	6714	3	US-09-299-141-6	Sequence 6, Appl
c 36	125	100.0	6924	3	US-09-299-141-9	Sequence 9, Appl
c 37	125	100.0	6924	3	US-09-299-141-9	Sequence 9, Appli
c 38	125	100.0	6924	3	US-09-299-141-10	Sequence 10, Appl
c 39	125	100.0	6924	3	US-09-299-141-10	Sequence 10, Appl
c 40	125	100.0	6924	3	US-09-299-141-11	Sequence 11, Appl
c 41	125	100.0	6924	3	US-09-299-141-11	Sequence 11, Appl
c 42	125	100.0	6981	3	US-09-299-141-7	Sequence 7, Appli
c 43	125	100.0	6981	3	US-09-299-141-7	Sequence 7, Appli
c 44	125	100.0	7054	3	US-09-299-141-3	Sequence 3, Appli
c 45	125	100.0	7054	3	US-09-299-141-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-07-789-917A-1
Sequence 1, Application US/07789917A
Patent No. 5252479
; GENERAL INFORMATION:
; APPLICANT: Srivastava, Arun
; TITLE OF INVENTION: SAFE VECTOR FOR GENE THERAPY
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Scully, Scott, Murphy Presser
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: New York
; COUNTRY: USA
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release q.0, Version q.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/789,917A
; FILING DATE: 19911118
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: McNulty, William E.
; REGISTRATION NUMBER: 22,606
; REFERENCE/DOCKET NUMBER: 8361
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742-4343
; TELEFAX: (516) 742-4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 145 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-07-789-917A-1

Query Match   100.0%; Score 125; DB 2; Length 145;
Best Local Similarity   100.0%;
Matches 125; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 TTGGCCACTCCCTCTCTCTGCGGCGCGGCTGCTCGCTCACTGAGGCGCGGCGGGGGCGACCAAAGGTCGCC 60
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 TTGGCCACTCCCTCTCTCTGCGGCGCGGCTGCTCGCTCACTGAGGCGCGGCGGGGGCGACCAAAGGTCGCC 60

```
Qy    61 CGACGCGCCGGGGCTTTGCCCGGCGCGGGGGGCGCGGGCCTCAGTGAGCGAGCGAGCGCGCGAGAGGGGAGTG 120
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61 CGACGCGCCGGGGCTTTGCCCGGCGCGGGGGGCGCGGGCCTCAGTGAGCGAGCGAGCGCGCGAGAGGGGAGTG 120
Qy   121 GCCAA 125
             |||||
Db   121 GCCAA 125
```

RESULT 2
US-08-702-573-4
; Sequence 4, Application US/08702573
; Patent No. 6033885
; GENERAL INFORMATION:
; APPLICANT: LATTA, Martine
; APPLICANT: DENEFLE, Patrice
; APPLICANT: VIGNE, Emmanuelle
; APPLICANT: PERRICAUDET, Michel
; TITLE OF INVENTION: INTEGRATIVE RECOMBINANT ADENOVIRUSES,
; TITLE OF INVENTION: PREPARATION THEREOF AND THERAPEUTICAL USES THEREOF
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rhone-Poulenc Rorer Inc.
; STREET: 500 Arcola Rd. 3C43
; CITY: Collegeville
; STATE: PA
; COUNTRY: USA
; ZIP: 19426
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/702,573
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: FR 94/02445
; FILING DATE: 03-MAR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/FR95/00233
; FILING DATE: 28-FEB-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith Ph.D., Julie K.
; REGISTRATION NUMBER: 38,619
; REFERENCE/DOCKET NUMBER: ST94011-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610)454-3839
; TELEFAX: (610)454-3808
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 145 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..145
; OTHER INFORMATION: /note= "Minimal ITR Sequence"

Query Match   100.0%; Score 125; DB 3; Length 145;
Best Local Similarity   100.0%; Pred. No. 4.4e-24;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TTGGCCACTCCCTCTCTCGCGCGCTCGCTCGCTCACTGAGGCGGGCCGACCAAAGGTCGCC 60
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 TTGGCCACTCCCTCTCTCGCGCGCTCGCTCGCTCACTGAGGCGGGCCGACCAAAGGTCGCC 60
```

RESULT 3
US-08-525-866-1/c
; Sequence 1, Application US/08525866
; Patent No. 6207457
; GENERAL INFORMATION:
;  APPLICANT: NATSOULIS, GEORGES
;  APPLICANT: FUROSKY, RICHARD T.
;  TITLE OF INVENTION: TARGETED NUCLEOTIDE SEQUENCE DELIVERY
;  TITLE OF INVENTION: AND INTEGRATION SYSTEM
;  NUMBER OF SEQUENCES: 6
;  CORRESPONDENCE ADDRESS:
;  ADDRESSEE: REED & ROBINS
;  STREET: 285 Hamilton Avenue, Suite 200
;  CITY: Palo Alto
;  STATE: CA
;  COUNTRY: USA
;  ZIP: 94301
;  COMPUTER READABLE FORM:
;  MEDIUM TYPE: Floppy disk
;  COMPUTER: IBM PC compatible
;  OPERATING SYSTEM: PC-DOS/MS-DOS
;  SOFTWARE: Patentin Release #1.0, Version #1.30
;  CURRENT APPLICATION DATA:
;  APPLICATION NUMBER: US/08/525,866
;  FILING DATE: 08-SEP-1995
;  CLASSIFICATION: 514
;  ATTORNEY/AGENT INFORMATION:
;  NAME: ROBINS, ROBERTA L.
;  REGISTRATION NUMBER: 33,208
;  REFERENCE/DOCKET NUMBER: 0800-0006
;  TELECOMMUNICATION INFORMATION:
;  TELEPHONE: (415) 327-3400
;  TELEFAX: (415) 327-3231
;  INFORMATION FOR SEQ ID NO: 1:
;  SEQUENCE CHARACTERISTICS:
;  LENGTH: 145 base pairs
;  TYPE: nucleic acid
;  STRANDEDNESS: single
;  TOPOLOGY: linear
US-08-525-866-1

Query Match             100.0%;  Score 125;  DB 3;  Length 145;
Best Local Similarity   100.0%;  Pred. No. 4.4e-24;
Matches  125;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

```
Qy    1 TTGGCCACTCCCTCTCTCGCGCGCTCGCTCGCTCACTGAGGCGGGCCGACCAAAGGTCGCC 60
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  125 TTGGCCACTCCCTCTCTCGCGCGCTCGCTCGCTCACTGAGGCGGGCCGACCAAAGGTCGCC 66
Qy   61 CGACGCGCCGGGGCTTTGCCCGGCGCGGGGGGCGCGGGCCTCAGTGAGCGAGCGAGCGCGCGAGAGGGGAGTG 120
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   65 CGACGCGCCGGGGCTTTGCCCGGCGCGGGGGGCGCGGGCCTCAGTGAGCGAGCGAGCGCGCGAGAGGGGAGTG 6
Qy  121 GCCAA 125
            |||||
Db    5 GCCAA 1
```

RESULT 4
US-07-982-193-1
; Sequence 1, Application US/07982193
; Patent No. 6261834
; GENERAL INFORMATION:
; APPLICANT: Srivastava, Arun

; TITLE OF INVENTION: SAFE VECTOR FOR GENE THERAPY
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Scully, Scott, Murphy & Presser
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: New York
; COUNTRY: USA
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/982,193
; FILING DATE: 19921125
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: McNulty, William E.
; REGISTRATION NUMBER: 22,606
; REFERENCE/DOCKET NUMBER: 8361
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742-4343
; TELEFAX: (516)742-4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 145 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)

US-07-982-193-1

Query Match   100.0%; Score 125; DB 3; Length 145;
Best Local Similarity 100.0%; Pred. No. 4.4e-24;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TTGGCCACTCCCTCTCTGCGCGGCTCGGTCGCTCACTGAGGCCGACCAAAGGTCGCC 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 TTGGCCACTCCCTCTCTGCGCGGCTCGGTCGCTCACTGAGGCCGACCAAAGGTCGCC 60

Qy   61 CGACGCCCGCGGCGTTTGCCCCGGGGGGGCGCGGGGCCGAGAGGGGAGTG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CGACGCCCGCGGCGTTTGCCCCGGGGGGGCGCGGGGCCGAGAGGGGAGTG 120

Qy 121 GCCAA 125
          |||||
Db 121 GCCAA 125

RESULT 5
US-09-782-378A-6
Sequence 6, Application US/09782378A
Patent No. 6916635
; GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick
; APPLICANT: Bahou, Wadie
; APPLICANT: Sandalon, Ziv
; APPLICANT: Gnatenko, Dmitri
; TITLE OF INVENTION: Adenoviral Vectors
; FILE REFERENCE: STONYB-04970
; CURRENT APPLICATION NUMBER: US/09/782,378A
; CURRENT FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/237,747
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
; LENGTH: 145
; TYPE: DNA
; ORGANISM: Homo sapiens

US-09-782-378A-6

Query Match   100.0%; Score 125; DB 3; Length 145;
Best Local Similarity 100.0%; Pred. No. 4.4e-24;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TTGGCCACTCCCTCTCTGCGCGGCTCGGTCGCTCACTGAGGCCGACCAAAGGTCGCC 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 TTGGCCACTCCCTCTCTGCGCGGCTCGGTCGCTCACTGAGGCCGACCAAAGGTCGCC 60

Qy   61 CGACGCCCGCGGCGTTTGCCCCGGGGGGGCGCGGGGCCGAGAGGGGAGTG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CGACGCCCGCGGCGTTTGCCCCGGGGGGGCGCGGGGCCGAGAGGGGAGTG 120

Qy 121 GCCAA 125
          |||||
Db 121 GCCAA 125

RESULT 6
US-07-989-841A-1
Sequence 1, Application US/07989841A
Patent No. 5478745
; GENERAL INFORMATION:
; APPLICANT: Samulski, R. J.
; APPLICANT: Xiao, X.
; TITLE OF INVENTION: Recombinant Viral Vector System
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/989,841A
; FILING DATE: On even date herewith
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 6636-013
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-8864/9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 165 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA (genomic)

US-07-989-841A-1

Query Match   100.0%; Score 125; DB 2; Length 165;
Best Local Similarity 100.0%; Pred. No. 4.5e-24;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TTGGCCACTCCCTCTCTGCGCGGCTCGGTCGCTCACTGAGGCCGACCAAAGGTCGCC 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   21 TTGGCCACTCCCTCTCTGCGCGGCTCGGTCGCTCACTGAGGCCGACCAAAGGTCGCC 80

Qy   61 CGACGCCCGCGGCGTTTGCCCCGGGGGGGCGCGGGGCCGAGAGGGGAGTG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||
Db   81 CGACGCCCGCGGCGTTTGCCCCGGGGGGGCGCGGGGCCGAGAGGGGAGTG 140

```
Qy    121  GCCAA 125
           |||||
Db    141  GCCAA 145

RESULT 7
US-08-440-738A-1
; Sequence 1, Application US/0840738A
; Patent No. 5869305
; GENERAL INFORMATION:
; APPLICANT: Samulski, R. J.
; APPLICANT: Xiao, X.
; TITLE OF INVENTION: Recombinant Viral Vector System
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/440,738A
; FILING DATE: May 15, 1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 6636-022
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-8864/9741
; TELEX: 6641 PENNIE
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 165 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA (genomic)

Query Match          100.0%;  Score 125;  DB 2;  Length 165;
Best Local Similarity 100.0%;  Pred. No. 4.5e-24;
Matches 125;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;
US-08-440-738A-1

Qy    1  TTGGCCACTCCCTCTCTCTGCGCGCGCGCCTCGGTCGCTTCACTGAGCGGGCCGACCAAAAGGTCGCC  60
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   21  TTGGCCACTCCCTCTCTCTGCGCGCGCGCCTCGGTCGCTTCACTGAGCGGGCCGACCAAAAGGTCGCC  80

Qy   61  CGACGCCCGGGGCGTTTGCCCGGGCGGGGGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGGAGTG  120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   81  CGACGCCCGGGGCGTTTGCCCGGGCGGGGGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGGAGTG  140

Qy  121  GCCAA 125
         |||||
Db  141  GCCAA 145

RESULT 8
US-08-471-914-1
; Sequence 1, Application US/0847191A
; Patent No. 6057152
; GENERAL INFORMATION:
; APPLICANT: Samulski, R.
; APPLICANT: Xiao, X.
; TITLE OF INVENTION: RECOMBINANT VIRAL VECTOR SYSTEM
; FILE REFERENCE: 6636-027
; CURRENT APPLICATION NUMBER: US/08/471,914A
; CURRENT FILING DATE: 1995-06-06
; EARLIER APPLICATION NUMBER: 08/440,738
; EARLIER FILING DATE: 1995-05-15
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 165
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: double-D
; OTHER INFORMATION: sequence
US-08-471-914-1

Query Match          100.0%;  Score 125;  DB 3;  Length 165;
Best Local Similarity 100.0%;  Pred. No. 4.5e-24;
Matches 125;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

Qy    1  TTGGCCACTCCCTCTCTCTGCGCGCGCGCCTCGGTCGCTTCACTGAGCGGGCCGACCAAAAGGTCGCC  60
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   21  TTGGCCACTCCCTCTCTCTGCGCGCGCGCCTCGGTCGCTTCACTGAGCGGGCCGACCAAAAGGTCGCC  80

Qy   61  CGACGCCCGGGGCGTTTGCCCGGGCGGGGGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGGAGTG  120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   81  CGACGCCCGGGGCGTTTGCCCGGGCGGGGGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGGAGTG  140

Qy  121  GCCAA 125
         |||||
Db  141  GCCAA 145

RESULT 9
US-09-276-625-7
; Sequence 7, Application US/0927662S
; Patent No. 6436392
; GENERAL INFORMATION:
; APPLICANT: Engelhardt, John F.
; APPLICANT: Duan, Dongsheng
; TITLE OF INVENTION: Adeno-associated virus vectors
; FILE REFERENCE: 875.007US1
; CURRENT APPLICATION NUMBER: US/09/276,625
; CURRENT FILING DATE: 1999-03-25
; PRIOR APPLICATION NUMBER: US 60/086,166
; PRIOR FILING DATE: 1998-05-20
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 165
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: SEQ ID NO:1 of U.S. Patent No. 6436392 5,478,745 .
US-09-276-625-7

Query Match          100.0%;  Score 125;  DB 3;  Length 165;
Best Local Similarity 100.0%;  Pred. No. 4.5e-24;
Matches 125;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

Qy    1  TTGGCCACTCCCTCTCTCTGCGCGCGCGCCTCGGTCGCTTCACTGAGCGGGCCGACCAAAAGGTCGCC  60
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   21  TTGGCCACTCCCTCTCTCTGCGCGCGCGCCTCGGTCGCTTCACTGAGCGGGCCGACCAAAAGGTCGCC  80

Qy   61  CGACGCCCGGGGCGTTTGCCCGGGCGGGGGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGGAGTG  120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   81  CGACGCCCGGGGCGTTTGCCCGGGCGGGGGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGGAGTG  140

Qy  121  GCCAA 125
         |||||
Db  141  GCCAA 145

RESULT 10
```

US-10-054-665A-7
Sequence 7, Application US/10054665A
Patent No. 6897045
GENERAL INFORMATION:
; APPLICANT: Engelhardt, John F.
; APPLICANT: Duan, Dongshen
; APPLICANT: University of Iowa Research Foundation
; TITLE OF INVENTION: Adeno-associated virus vectors
; FILE REFERENCE: 875.007US2
; CURRENT APPLICATION NUMBER: US/10/054,665A
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: US 60/086,166
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 09/276,625
; PRIOR FILING DATE: 1999-03-25
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
;   LENGTH: 165
;   TYPE: DNA
;   ORGANISM: Unknown
;   FEATURE:
;   OTHER INFORMATION: SEQ ID NO:1 of U.S. Patent No. 6897045 5,478,745
US-10-054-665A-7

Query Match   100.0%; Score 125; DB 3; Length 165;
Best Local Similarity   100.0%; Pred. No. 4.5e-24;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy    1 TTGGCCACTCCCTCTCTGCGCGCGCCTCCGCTGCGCGGCGGCGGCCTCAGTAGTGAGGGAG   60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   21 TTGGCCACTCCCTCTCTGCGCGCGCCTCCGCTGCGCGGCGGCGGCCTCAGTAGTGAGGGAG   80

Qy   61 CGACCGCCCGGCGGCTTTGCCCCGGGCGGGCGGCCGGCGCCGCAGAGGAGTG          120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   81 CGACCGCCCGGCGGCTTTGCCCCGGGCGGGCGGCCGGCGCCGCAGAGGAGTG          140

Qy  121 GCCAA          125
        |||||
Db  141 GCCAA          145
```

RESULT 11
US-09-782-378A-8
Sequence 8, Application US/09782378A
Patent No. 6916635
GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick
; APPLICANT: Babou, Wadie
; APPLICANT: Sandalon, Ziv
; APPLICANT: Gnatenko, Dmitri
; TITLE OF INVENTION: Adenoviral Vectors
; FILE REFERENCE: STONYB-04970
; CURRENT APPLICATION NUMBER: US/09/782,378A
; CURRENT FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/237,747
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 8
;   LENGTH: 165
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-782-378A-8

Query Match   100.0%; Score 125; DB 3; Length 165;
Best Local Similarity   100.0%; Pred. No. 4.5e-24;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy    1 TTGGCCACTCCCTCTCTGCGCGCGCCTCCGCTGCGCGGCGGCGGCCTCAGTAGTGAGGGAG   60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   21 TTGGCCACTCCCTCTCTGCGCGCGCCTCCGCTGCGCGGCGGCGGCCTCAGTAGTGAGGGAG   80
```

RESULT 12
US-08-702-573-3
Sequence 3, Application US/08702573
Patent No. 6033885
GENERAL INFORMATION:
; APPLICANT: LATTA, Martine
; APPLICANT: DENEFLE, Patrice
; APPLICANT: VIGNE, Emmanuelle
; APPLICANT: PERRICAUDET, Michel
; TITLE OF INVENTION: INTEGRATIVE RECOMBINANT ADENOVIRUSES,
; TITLE OF INVENTION: PREPARATION THEREOF AND THERAPEUTICAL USES THEREOF
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Rhone-Poulenc Rorer Inc.
;   STREET: 500 Arcola Rd. 3C43
;   CITY: Collegeville
;   STATE: PA
;   COUNTRY: USA
;   ZIP: 19426
; COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatible
;   OPERATING SYSTEM: PC-DOS/MS-DOS
;   SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/08/702,573
;   FILING DATE:
;   CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: FR 94/02445
;   FILING DATE: 03-MAR-1994
; PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: WO PCT/FR95/00233
;   FILING DATE: 28-FEB-1995
; ATTORNEY/AGENT INFORMATION:
;   NAME: Smith Ph.D., Julie K.
;   REGISTRATION NUMBER: 38,619
;   REFERENCE/DOCKET NUMBER: ST94011-US
; TELECOMMUNICATION INFORMATION:
;   TELEPHONE: (610) 454-3839
;   TELEFAX: (610) 454-3808
; INFORMATION FOR SEQ ID NO: 3:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 192 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: double
;   TOPOLOGY: linear
;   MOLECULE TYPE: other nucleic acid
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: 1..192
;   OTHER INFORMATION: /note= "Right ITR Sequence in
; Patent No. 6033885
; OTHER INFORMATION: pXL2384"
US-08-702-573-3

Query Match   100.0%; Score 125; DB 3; Length 192;
Best Local Similarity   100.0%; Pred. No. 4.5e-24;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy    1 TTGGCCACTCCCTCTCTGCGCGCGCCTCCGCTGCGCGGCGGCGGCCTCAGTAGTGAGGGAG   60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   68 TTGGCCACTCCCTCTCTGCGCGCGCCTCCGCTGCGCGGCGGCGGCCTCAGTAGTGAGGGAG   127
```

```
Qy      61  CGACGCCCCGGGGCTTTGCCCGGGCGGCGGCCCTCAGTGACGAGCGAGCGAGGAGCGCAGAGAGGAGGAGTG  120
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     128  CGACGCCCCGGGGCTTTGCCCGGGCGGCGGCCCTCAGTGACGAGCGAGCGAGGAGCGCAGAGAGGAGGAGTG  187

Qy     121  GCCAA  125
            |||||
Db     188  GCCAA  192
```

RESULT 13
US-09-782-378A-1
; Sequence 1, Application US/0978237BA
; Patent No. 6916635
; GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick
; APPLICANT: Bahou, Wadie
; APPLICANT: Sandalon, Ziv
; APPLICANT: Gnatenko, Dmitri
; TITLE OF INVENTION: Adenoviral Vectors
; FILE REFERENCE: STONYB-04970
; CURRENT APPLICATION NUMBER: US/09/782,378A
; CURRENT FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/237,747
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 1
; LENGTH: 4675
; TYPE: DNA
; ORGANISM: Human adeno-associated virus 2
US-09-782-378A-1

Query Match   100.0%; Score 125; DB 3; Length 4675;
Best Local Similarity   100.0%; Pred. No. 5e-24;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy       1  TTGGCCACTCCCTCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGCCCGGGCAACGGGCGACCAAAAGGTCGCC  60
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1  TTGGCCACTCCCTCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGCCCGGGCAACGGGCGACCAAAAGGTCGCC  60

Qy      61  CGACGCCCCGGGGCTTTGCCCGGGCGGCGGCCCTCAGTGACGAGCGAGCGAGGAGCGCAGAGAGGAGGAGTG  120
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      61  CGACGCCCCGGGGCTTTGCCCGGGCGGCGGCCCTCAGTGACGAGCGAGCGAGGAGCGCAGAGAGGAGGAGTG  120

Qy     121  GCCAA  125
            |||||
Db     121  GCCAA  125
```

RESULT 14
US-09-782-378A-2
; Sequence 2, Application US/09782378A
; Patent No. 6916635
; GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick
; APPLICANT: Bahou, Wadie
; APPLICANT: Sandalon, Ziv
; APPLICANT: Gnatenko, Dmitri
; TITLE OF INVENTION: Adenoviral Vectors
; FILE REFERENCE: STONYB-04970
; CURRENT APPLICATION NUMBER: US/09/782,378A
; CURRENT FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: US/09/782,378A
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 2
; LENGTH: 4675
; TYPE: DNA
; ORGANISM: Human adeno-associated virus 2
US-09-782-378A-2

Query Match   100.0%; Score 125; DB 3; Length 4675;
Best Local Similarity   100.0%; Pred. No. 5e-24;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy       1  TTGGCCACTCCCTCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGCCCGGGCAACGGGCGACCAAAAGGTCGCC  60
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1  TTGGCCACTCCCTCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGCCCGGGCAACGGGCGACCAAAAGGTCGCC  60

Qy      61  CGACGCCCCGGGGCTTTGCCCGGGCGGCGGCCCTCAGTGACGAGCGAGCGAGGAGCGCAGAGAGGAGGAGTG  120
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      61  CGACGCCCCGGGGCTTTGCCCGGGCGGCGGCCCTCAGTGACGAGCGAGCGAGGAGCGCAGAGAGGAGGAGTG  120

Qy     121  GCCAA  125
            |||||
Db     121  GCCAA  125
```

RESULT 15
US-10-038-972A-12
; Sequence 12, Application US/10038972A
; Patent No. 6962815
; GENERAL INFORMATION:
; APPLICANT: J. Bartlett
; TITLE OF INVENTION: AAV VECTORS AND METHODS
; FILE REFERENCE: 28335/36996US
; CURRENT APPLICATION NUMBER: US/10/038,972A
; CURRENT FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: US 60/260,124
; PRIOR FILING DATE: 2001-01-05
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 12
; LENGTH: 4679
; TYPE: DNA
; ORGANISM: adeno-associated virus 2
US-10-038-972A-12

Query Match   100.0%; Score 125; DB 3; Length 4679;
Best Local Similarity   100.0%; Pred. No. 5e-24;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy       1  TTGGCCACTCCCTCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGCCCGGGCAACGGGCGACCAAAAGGTCGCC  60
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1  TTGGCCACTCCCTCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGCCCGGGCAACGGGCGACCAAAAGGTCGCC  60

Qy      61  CGACGCCCCGGGGCTTTGCCCGGGCGGCGGCCCTCAGTGACGAGCGAGCGAGGAGCGCAGAGAGGAGGAGTG  120
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      61  CGACGCCCCGGGGCTTTGCCCGGGCGGCGGCCCTCAGTGACGAGCGAGCGAGGAGCGCAGAGAGGAGGAGTG  120

Qy     121  GCCAA  125
            |||||
Db     121  GCCAA  125
```

Search completed: March 12, 2006, 03:18:21
Job time : 91 secs

GenCore version 5.1.7

Copyright (c) 1993 - 2006 Biocceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on:　　March 12, 2006, 20:14:07 ; Search time 814 Seconds
　　　　　　　　　　　　　　　　　　　　　(without alignments)
　　　　　　　　　　　　　　　　　　　　　1269.868 Million cell updates/sec

Title:　　　US-10-620-039-1_COPY_1_125
Perfect score:　125
Sequence:　1 TTGGCCACTCCCTCTCTCTGCG.........CGCAGAGAGGAGTGGCCAA 125

Scoring table:　IDENTITY_NUC
　　　　　　　　Gapop 10.0 , Gapext 1.0

Searched:　9793542 seqs, 413468905 residues

Total number of hits satisfying chosen parameters:　19587084

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
　　　　　　　　　Maximum Match 100%
　　　　　　　　　Listing first 45 summaries

Database :　Published_Applications_NA_Main:*
　　1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
　　2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
　　3: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq:*
　　4: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq:*
　　5: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
　　6: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
　　7: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
　　8: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
　　9: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
　 10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Match Length	DB ID	Description
1	125	100.0	130	US-09-928-158B-1	Sequence 1, Appli
2	125	100.0	144	US-10-501-756-13	Sequence 13, Appli
3	125	100.0	145	US-09-782-378A-6	Sequence 6, Appli
4	125	100.0	145	US-10-240-198-2	Sequence 2, Appli
5	125	100.0	145	US-10-837-029-1	Sequence 1, Appli
6	125	100.0	145	US-10-837-029-11	Sequence 11, Appli
7	125	100.0	145	US-10-501-756-12	Sequence 12, Appli
8	125	100.0	146	US-10-135-988-8	Sequence 8, Appli
9	125	100.0	165	US-09-782-378A-8	Sequence 8, Appli
10	125	100.0	165	US-10-054-665-7	Sequence 7, Appli
11	125	100.0	165	US-10-159-968-13	Sequence 13, Appli
12	125	100.0	170	US-10-669-641-3	Sequence 3, Appli
13	125	100.0	175	US-10-276-356-1	Sequence 1, Appli
14	125	100.0	207	US-10-023-208-58	Sequence 58, Appli
15	125	100.0	955	US-09-845-416-26	Sequence 26, Appli
16	125	100.0	955	US-09-845-416-26	Sequence 26, Appli
17	125	100.0	987	US-09-845-416-33	Sequence 33, Appli
18	125	100.0	987	US-09-845-416-33	Sequence 33, Appli
19	125	100.0	4414	US-09-845-416-32	Sequence 32, Appli
20	125	100.0	4414	US*09-845-416-32	Sequence 32, Appli
21	125	100.0	4414	US-09-845-416-31	Sequence 31, Appli
22	125	100.0	4476	US-09-845-416-31	Sequence 31, Appli
23	125	100.0	4498	US-09-845-416-30	Sequence 30, Appli
24	125	100.0	4498	US-09-845-416-30	Sequence 30, Appli
25	125	100.0	4675	US-09-782-378A-1	Sequence 1, Appli
26	125	100.0	4675	US-09-782-378A-2	Sequence 2, Appli
27	125	100.0	4675	US-10-240-198-1	Sequence 1, Appli
28	125	100.0	4675	US-10-291-583-7	Sequence 7, Appli
29	125	100.0	4675	US-10-427-129-2	Sequence 2, Appli
30	125	100.0	4675	US-09-804-898-1	Sequence 1, Appli
31	125	100.0	4679	US-09-945-681-10	Sequence 10, Appli
32	125	100.0	4679	US-10-038-972A-12	Sequence 12, Appli
33	125	100.0	4679	US-10-136-819-6	Sequence 6, Appli
34	125	100.0	4680	US-10-077-294-1	Sequence 1, Appli
35	125	100.0	4680	US-10-163-886-1	Sequence 1, Appli
36	125	100.0	4680	US-10-263-127-1	Sequence 1, Appli
37	125	100.0	4680	US-10-291-583-6	Sequence 6, Appli
38	125	100.0	4680	US-10-375-777-1	Sequence 1, Appli
39	125	100.0	4680	US-11-063-903-1	Sequence 1, Appli
40	125	100.0	4681	US-10-696-261-18	Sequence 18, Appli
41	125	100.0	4681	US-10-696-282-18	Sequence 18, Appli
42	125	100.0	4681	US-10-696-900-18	Sequence 18, Appli
43	125	100.0	4683	US-10-696-261-19	Sequence 19, Appli
44	125	100.0	4683	US-10-696-282-19	Sequence 19, Appli
45	125	100.0	4683	US-10-696-900-19	Sequence 19, Appli
c	125	100.0	4498	US-09-845-416-30	Sequence 30, Appl
c	125	100.0	4476	US-09-845-416-31	Sequence 31, Appl
c	125	100.0	4476	US-09-845-416-31	Sequence 31, Appl
c	125	100.0	4414	US-09-845-416-32	Sequence 32, Appl
c	125	100.0	4414	US-09-845-416-32	Sequence 32, Appl
c	125	100.0	4414	US-09-845-416-32	Sequence 32, Appl
c	125	100.0	987	US-09-845-416-33	Sequence 33, Appl
c	125	100.0	987	US-10-240-198-2	Sequence 2, Appl
c	125	100.0	145	US-09-782-378A-6	Sequence 6, Appl
c	125	100.0	144	US-10-501-756-13	Sequence 13, Appl
c	125	100.0	130	US-09-928-158B-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1
US-09-928-158B-1
; Sequence 1, Application US/09928158B
; Patent No. US2002017722A1
; GENERAL INFORMATION:
; APPLICANT: SIKUN, LI
; TITLE OF INVENTION: REPLICATION COMPETENT AAV HELPER FUNCTIONS
; FILE REFERENCE: 102182-18
; CURRENT APPLICATION NUMBER: US/09/928,158B
; CURRENT FILING DATE: 2002-05-06
; PRIOR APPLICATION NUMBER: 60/224,132
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patentin version 3.0
;
; SEQ ID NO 1
; LENGTH: 130
; TYPE: DNA
; ORGANISM: adeno-associated virus 2
US-09-928-158B-1

Query Match　　　　100.0%; Score 125; DB 3; Length 130;
Best Local Similarity　100.0%; Pred. No. 1.7e-27;
Matches 125; Conservative　0; Mismatches　0; Indels　0; Gaps　0;

Qy　　1 TTGGCCACTCCCTCTCTCTGCGCGGCGGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC 60
　　　　　||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db　　1 TTGGCCACTCCCTCTCTCTGCGCGGCGGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC 60

Qy　 61 CGACGCCCGGGCGTTTGCCCGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120
　　　　　||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db　 61 CGACGCCCGGGCGTTTGCCCGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120

Qy　121 GCCAA 125
　　　　　|||||
Db　121 GCCAA 125

RESULT 2
US-10-501-756-13
; Sequence 13, Application US/10501756
; Publication No. US20050112765A1
; GENERAL INFORMATION:
; APPLICANT: Duke University
; APPLICANT: Chuan-Yuan, Li
; APPLICANT: Xiuwu, Zhang
; TITLE OF INVENTION: GENERATION OF RECOMBINANT ADENO-ASSOCIATED VIRAL VECTORS BY A

; TITLE OF INVENTION: COMPLETE ADENOVIRUS-MEDIATED APPROACH
; FILE REFERENCE: 180/137
; CURRENT APPLICATION NUMBER: US/10/501,756
; CURRENT FILING DATE: 2004-07-16
; PRIOR APPLICATION NUMBER: US 60/349,532
; PRIOR FILING DATE: 2002-01-18
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 13
; LENGTH: 144
; TYPE: DNA
; ORGANISM: adeno-associated virus 2
US-10-501-756-13

Query Match   100.0%; Score 125; DB 9; Length 144;
Best Local Similarity   100.0%; Pred. No. 1.6e-27;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TTGGCCACTCCCTCTCTGCGCGCCTCGCTCGCTCACTGAGGCCGGGCCGACCAAAGGTCGCC 60
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   20 TTGGCCACTCCCTCTCTGCGCGCCTCGCTCGCTCACTGAGGCCGGGCCGACCAAAGGTCGCC 79

Qy   61 CGACGCCCGGGGCTTTGCCCGGGCGGGGCGGGGCGGGCGCCGCAGAGAGGGAGTG 120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   80 CGACGCCCGGGGCTTTGCCCGGGCGGGGCGGGGCGGGCGCCGCAGAGAGGGAGTG 139

Qy 121 GCCAA 125
         |||||
Db 140 GCCAA 144

RESULT 3
US-09-782-378A-6
; Sequence 6, Application US/09782378A
; Patent No. US20020102731A1
; GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick
; APPLICANT: Bahou, Wadie
; APPLICANT: Sandalon, Ziv
; TITLE OF INVENTION: Adenoviral Vectors
; FILE REFERENCE: STONY8-04970
; CURRENT APPLICATION NUMBER: US/09/782,378A
; CURRENT FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/237,747
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 6
; LENGTH: 145
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-782-378A-6

Query Match   100.0%; Score 125; DB 3; Length 145;
Best Local Similarity   100.0%; Pred. No. 1.6e-27;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TTGGCCACTCCCTCTCTGCGCGGCCTCGGTCAGGCGGGGGCGGGGGGGACCAAAGGTCGCC 60
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 TTGGCCACTCCCTCTCTGCGCGGCCTCGGTCAGGCGGGGGCGGGGGGGACCAAAGGTCGCC 60

Qy   61 CGACGCCCGGGGCTTTGCCCGGGCGGGGCGGGGCGGGCGCCGCAGAGAGGGAGTG 120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CGACGCCCGGGGCTTTGCCCGGGCGGGGCGGGGCGGGCGCCGCAGAGAGGGAGTG 120

Qy 121 GCCAA 125
         |||||
Db 121 GCCAA 125

RESULT 4
US-10-240-198-2

; Sequence 2, Application US/10240198
; Publication No. US20030100115A1
; GENERAL INFORMATION:
; APPLICANT: BTG International Ltd
; APPLICANT: BEARD, DR, PETER
; APPLICANT: RAJ DR, KENNETH
; TITLE OF INVENTION: CYTOTOXIC AGENTS
; FILE REFERENCE: 142184WO
; CURRENT APPLICATION NUMBER: US/10/240,198
; CURRENT FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: 0009887.1
; PRIOR FILING DATE: 2000-04-20
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 145
; TYPE: DNA
; ORGANISM: adeno-associated virus 2
; FEATURE:
; NAME/KEY: misc_structure
; LOCATION: (1)..(145)
; OTHER INFORMATION: ITR
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (72)
; OTHER INFORMATION: Unpaired base
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (94)
; OTHER INFORMATION: Unpaired base
US-10-240-198-2

Query Match   100.0%; Score 125; DB 5; Length 145;
Best Local Similarity   100.0%; Pred. No. 1.6e-27;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TTGGCCACTCCCTCTCTGCGCGGCTCGGTCGCTCACTGAGGCCGGGCGGACCAAAGGTCGCC 60
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   21 TTGGCCACTCCCTCTCTGCGCGGCTCGGTCGCTCACTGAGGCCGGGCGGACCAAAGGTCGCC 80

Qy   61 CGACGCCCGGGGCTTTGCCCGGGCGGGGCGGGGCGGGCGCCGCAGAGAGGGAGTG 120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   81 CGACGCCCGGGGCTTTGCCCGGGCGGGGCGGGGCGGGCGCCGCAGAGAGGGAGTG 140

Qy 121 GCCAA 125
         |||||
Db 141 GCCAA 145

RESULT 5
US-10-837-029-1
; Sequence 1, Application US/10837029
; Publication No. US20040248301A1
; GENERAL INFORMATION:
; APPLICANT: Engelhardt, John F.
; TITLE OF INVENTION: ADENO ASSOCIATED VIRUS VECTORS WITH
; TITLE OF INVENTION: INTRAVECTOR HETEROLOGOUS TERMINAL PALINDROMIC SEQUENCES
; FILE REFERENCE: 875.105US1
; CURRENT APPLICATION NUMBER: US/10/837,029
; CURRENT FILING DATE: 2004-04-30
; PRIOR APPLICATION NUMBER: US 10/194,421
; PRIOR FILING DATE: 2002-07-12
; PRIOR APPLICATION NUMBER: US 60/305,204
; PRIOR FILING DATE: 2001-07-13
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 145
; TYPE: DNA
; ORGANISM: Adeno-associated virus
US-10-837-029-1

Query Match   100.0%; Score 125; DB 8; Length 145;

RESULT 6
US-10-837-029-11
Sequence 11, Application US/10837029
Publication No. US20040248301A1
GENERAL INFORMATION:
; APPLICANT: Engelhardt, John F.
; TITLE OF INVENTION: ADENO ASSOCIATED VIRUS VECTORS WITH
   INTRAVECTOR HETEROLOGOUS TERMINAL PALINDROMIC SEQUENCES
; FILE REFERENCE: 875.105US1
; CURRENT APPLICATION NUMBER: US/10/837,029
; CURRENT FILING DATE: 2004-04-30
; PRIOR APPLICATION NUMBER: US 10/194,421
; PRIOR FILING DATE: 2002-07-12
; PRIOR APPLICATION NUMBER: US 60/305,204
; PRIOR FILING DATE: 2001-07-13
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 145
; TYPE: DNA
; ORGANISM: Adeno-associated virus

US-10-837-029-11

Query Match   100.0%; Score 125; DB 8; Length 145;
Best Local Similarity   100.0%; Pred. No. 1.6e-27;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TTGGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 TTGGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC 60

Qy   61 CGACGCCCGGGCCTTTGCCCGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CGACGCCCGGGCCTTTGCCCGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120

Qy 121 GCCAA 125
          |||||
Db 121 GCCAA 125

RESULT 7
US-10-501-756-12
Sequence 12, Application US/10501756
Publication No. US20050112765A1
GENERAL INFORMATION:
; APPLICANT: Duke University
; APPLICANT: Chuan-Yuan, Li
; APPLICANT: Xiuwu, Zhang
; TITLE OF INVENTION: GENERATION OF RECOMBINANT ADENO-ASSOCIATED VIRAL VECTORS BY A
   COMPLETE ADENOVIRUS-MEDIATED APPROACH
; FILE REFERENCE: 180/137
; CURRENT APPLICATION NUMBER: US/10/501,756
; CURRENT FILING DATE: 2004-07-16
; PRIOR APPLICATION NUMBER: US 60/349,532
; PRIOR FILING DATE: 2002-01-18
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patentin version 3.2

; SEQ ID NO 12
; LENGTH: 145
; TYPE: DNA
; ORGANISM: adeno-associated virus 2

US-10-501-756-12

Query Match   100.0%; Score 125; DB 9; Length 145;
Best Local Similarity   100.0%; Pred. No. 1.6e-27;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TTGGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 TTGGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC 60

Qy   61 CGACGCCCGGGCCTTTGCCCGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CGACGCCCGGGCCTTTGCCCGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120

Qy 121 GCCAA 125
          |||||
Db 121 GCCAA 125

RESULT 8
US-10-135-984-8
Sequence 8, Application US/10135984
Publication No. US20020182559A1
GENERAL INFORMATION:
; APPLICANT: Matthew D. Weitzman
; APPLICANT: Anton J. Cathomen
; TITLE OF INVENTION: METHOD OF IDENTIFYING CELLULAR
   REGULATORS OF ADENO-ASSOCIATED VIRUS (AAV)
; FILE REFERENCE: SALKINS.041A
; CURRENT APPLICATION NUMBER: US/10/135,984
; CURRENT FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: 60/286951
; PRIOR FILING DATE: 2001-04-27
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 146
; TYPE: DNA
; ORGANISM: adeno-associated virus

US-10-135-984-8

Query Match   100.0%; Score 125; DB 5; Length 146;
Best Local Similarity   100.0%; Pred. No. 1.6e-27;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TTGGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 TTGGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC 60

Qy   61 CGACGCCCGGGCCTTTGCCCGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CGACGCCCGGGCCTTTGCCCGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG 120

Qy 121 GCCAA 125
          |||||
Db 121 GCCAA 125

RESULT 9
US-09-782-378A-8
Sequence 8, Application US/09782378A
Patent No. US20020102731A1
GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick
; APPLICANT: Bahou, Wadie
; APPLICANT: Sandalon, Ziv
; APPLICANT: Gnatenko, Dmitri
; TITLE OF INVENTION: Adenoviral Vectors
; FILE REFERENCE: STONYB-04970

; CURRENT APPLICATION NUMBER: US/09/782,378A
; CURRENT FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/237,747
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin version 3.0
;
; SEQ ID NO 8
; LENGTH: 165
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-782-378A-8

Query Match   100.0%; Score 125; DB 3; Length 165;
Best Local Similarity   100.0%;
  Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TTGGCCACTCCCTCCTTCTGCGCGCTCGGCTTGGCTTCACTGAGGCCGGGCGACCAAAGGTCGCC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   21 TTGGCCACTCCCTCCTTCTGCGCGCTCGGCTTGGCTTCACTGAGGCCGGGCGACCAAAGGTCGCC 80

Qy   61 CGAGCCCCCGGGGCTTTGCCCCGGGCGCCCAGTGAGGCGAGCCCGCAGAGAGGGGAGTG 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   81 CGAGCCCCCGGGGCTTTGCCCCGGGCGCCCAGTGAGGCGAGCCCGCAGAGAGGGGAGTG 140

Qy   121 GCCAA 125
              |||||
Db   141 GCCAA 145

RESULT 10
US-10-054-665-7
; Sequence 7, Application US/10054665
; Publication No. US20020197237A1
; GENERAL INFORMATION:
; APPLICANT: Engelhardt, John F.
; APPLICANT: Duan, Dongsheng
; TITLE OF INVENTION: Adeno-associated virus vectors
; FILE REFERENCE: 875,007US2
; CURRENT APPLICATION NUMBER: US/10/054,665
; CURRENT FILING DATE: 2002-06-13
; PRIOR APPLICATION NUMBER: US 09/276,625
; PRIOR FILING DATE: 1999-03-25
; PRIOR APPLICATION NUMBER: US 60/086,166
; PRIOR FILING DATE: 1998-05-20
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSEQ for Windows Version 4.0
;
; SEQ ID NO 7
; LENGTH: 165
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: SEQ ID NO:1 of U.S. Patent No. 5,478,745
US-10-054-665-7

Query Match   100.0%; Score 125; DB 5; Length 165;
Best Local Similarity   100.0%;
  Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TTGGCCACTCCCTCCTTCTGCGCGCTCGGCTTGGCTTCACTGAGGCCGGGCGACCAAAGGTCGCC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   21 TTGGCCACTCCCTCCTTCTGCGCGCTCGGCTTGGCTTCACTGAGGCCGGGCGACCAAAGGTCGCC 80

Qy   61 CGAGCCCCCGGGGCTTTGCCCCGGGCGCCCAGTGAGGCGAGCCCGCAGAGAGGGGAGTG 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   81 CGAGCCCCCGGGGCTTTGCCCCGGGCGCCCAGTGAGGCGAGCCCGCAGAGAGGGGAGTG 140

Qy   121 GCCAA 125
              |||||
Db   141 GCCAA 145

; Sequence 13, Application US/10159968
; Publication No. US20030152914A1
; GENERAL INFORMATION:
; APPLICANT: Kaplitt, Michael G.
; APPLICANT: Musatov, Serge
; TITLE OF INVENTION: Method for Generating Replication
; TITLE OF INVENTION: Defective Viral Vectors That are Helper Free
; FILE REFERENCE: 600-1-286
; CURRENT APPLICATION NUMBER: US/10/159,968
; CURRENT FILING DATE: 2002-05-31
; PRIOR APPLICATION NUMBER: US 60/313,007
; PRIOR FILING DATE: 2001-08-07
; PRIOR APPLICATION NUMBER: US 60/294,797
; PRIOR FILING DATE: 2001-05-31
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSEQ for Windows Version 4.0
;
; SEQ ID NO 13
; LENGTH: 165
; TYPE: DNA
; ORGANISM: Adeno-associated virus
US-10-159-968-13

Query Match   100.0%; Score 125; DB 6; Length 165;
Best Local Similarity   100.0%;
  Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TTGGCCACTCCCTCCTTCTGCGCGCTCGGCTTGGCTTCACTGAGGCCGGGCGACCAAAGGTCGCC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   145 TTGGCCACTCCCTCCTTCTGCGCGCTCGGCTTGGCTTCACTGAGGCCGGGCGACCAAAGGTCGCC 86

Qy   61 CGAGCCCCCGGGGCTTTGCCCCGGGCGCCCAGTGAGGCGAGCCCGCAGAGAGGGGAGTG 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   85 CGAGCCCCCGGGGCTTTGCCCCGGGCGCCCAGTGAGGCGAGCCCGCAGAGAGGGGAGTG 26

Qy   121 GCCAA 125
              |||||
Db   25 GCCAA 21

RESULT 12
US-10-669-641-3
; Sequence 3, Application US/10669641
; Publication No. US20040137626A1
; GENERAL INFORMATION:
; APPLICANT: WAGNER, THOMAS E.
; APPLICANT: YU, XIANXHANG
; TITLE OF INVENTION: AAV ITR-MEDIATED MODULATION
; FILE REFERENCE: 035879-0165
; CURRENT APPLICATION NUMBER: US/10/669,641
; CURRENT FILING DATE: 2003-09-25
; PRIOR APPLICATION NUMBER: 60/413,450
; PRIOR FILING DATE: 2002-09-26
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: Patentin Ver. 3.2
;
; SEQ ID NO 3
; LENGTH: 170
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic AAV
; OTHER INFORMATION: ITR nucleotide sequence
US-10-669-641-3

Query Match   100.0%; Score 125; DB 7; Length 170;
Best Local Similarity   100.0%;
  Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TTGGCCACTCCCTCCTTCTGCGCGCTCGGCTTGGCTTCACTGAGGCCGGGCGACCAAAGGTCGCC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   21 TTGGCCACTCCCTCCTTCTGCGCGCTCGGCTTGGCTTCACTGAGGCCGGGCGACCAAAGGTCGCC 80

Qy   61 CGAGCCCCCGGGGCTTTGCCCCGGGCGCCCAGTGAGGCGAGCCCGCAGAGAGGGGAGTG 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   81 CGAGCCCCCGGGGCTTTGCCCCGGGCGCCCAGTGAGGCGAGCCCGCAGAGAGGGGAGTG 140

Qy   121 GCCAA 125
              |||||
Db   141 GCCAA 145

RESULT 11
US-10-159-968-13/c

Qy   61 CGAGCCCCCGGGGCTTTGCCCCGGGCGCCCAGTGAGGCGAGCCCGCAGAGAGGGGAGTG 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 TTGGCCACTCCCTCCTTCTGCGCGCTCGGCTTGGCTTCACTGAGGCCGGGCGACCAAAGGTCGCC 60

```
Db        61 CGACGCCCGCGGCGTTTGCCCGCGGCGAGCGAGCGCGCGCAGAGAGGGAGTG 120

Qy       121 GCCAA 125
             |||||
Db       121 GCCAA 125

RESULT 13
US-10-276-356-1/c
; Sequence 1, Application US/10276356
; Publication No. US20040029106A1
; GENERAL INFORMATION:
;  APPLICANT: University of No. US20040029106A1th Carolina at Chapel Hill
;  APPLICANT: Samulski, R. Jude
;  APPLICANT: McCarty, Douglas M.
;  TITLE OF INVENTION: DUPLEXED PARVOVIRUS VECTORS
;  FILE REFERENCE: 5470-282
;  CURRENT APPLICATION NUMBER: US/10/276,356
;  CURRENT FILING DATE: 2001-05-31
;  PRIOR APPLICATION NUMBER: PCT/US01/17587
;  PRIOR FILING DATE: 2001-05-31
;  NUMBER OF SEQ ID NOS: 1
;  SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
;  LENGTH: 175
;  TYPE: DNA
;  ORGANISM: Artificial sequence
;  FEATURE:
;  OTHER INFORMATION: Inverted terminal repeat from the AAV-2 vector plasmid pSub 201
US-10-276-356-1

Query Match              100.0%;  Score 125;  DB 7;  Length 175;
Best Local Similarity    100.0%;  Pred. No. 1.6e-27;
Matches  125; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy         1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC 60
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       150 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC 91

Qy        61 CGACGCCCGGGGCTTTGCCCGGCGGCGCCCTCAGTGAGCGAGCGAGCGCGCGAGAGGGAGTG 120
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        90 CGACGCCCGGGGCTTTGCCCGGCGGCGCCCTCAGTGAGCGAGCGAGCGCGCGAGAGGGAGTG 31

Qy       121 GCCAA 125
             |||||
Db        30 GCCAA 26

RESULT 14
US-10-023-208-58
; Sequence 58, Application US/10023208
; Publication No. US20030124537A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Min
;  APPLICANT: Liu, Yuan-Ching
;  TITLE OF INVENTION: PROCARYOTIC LIBRARIES AND USES
;  FILE REFERENCE: A-70174-1/RFT/RMS/RMK
;  CURRENT APPLICATION NUMBER: US/10/023,208
;  CURRENT FILING DATE: 2001-12-17
;  PRIOR APPLICATION NUMBER: US 60/256,163
;  PRIOR FILING DATE: 2000-12-14
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: Patentin version 3.1
; SEQ ID NO 58
;  LENGTH: 207
;  TYPE: DNA
;  ORGANISM: Artificial sequence
;  FEATURE:
;  OTHER INFORMATION: synthetic enzyme attachment site sequence
US-10-023-208-58

Query Match              100.0%;  Score 125;  DB 6;  Length 207;
Best Local Similarity    100.0%;  Pred. No. 1.5e-27;
```

```
Matches  125; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy        61 CGACGCCCGGGGCTTTGCCCGGCGGCGCCCTCAGTGAGCGAGCGAGCGCGCGAGAGGGAGTG 120
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       102 CGACGCCCGGGGCTTTGCCCGGCGGCGCCCTCAGTGAGCGAGCGAGCGCGCGAGAGGGAGTG 161

Qy       121 GCCAA 125
             |||||
Db       162 GCCAA 166

RESULT 15
US-09-845-416-26
; Sequence 26, Application US/09845416
; Publication No. US20030171311A1
; GENERAL INFORMATION:
;  APPLICANT: XIAO, XIAO
;  TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
;  TITLE OF INVENTION: THEREOF
;  FILE REFERENCE: DE1142
;  CURRENT APPLICATION NUMBER: US/09/845,416
;  CURRENT FILING DATE: 2001-04-30
;  PRIOR APPLICATION NUMBER: 60/200,777
;  PRIOR FILING DATE: 2000-04-28
;  NUMBER OF SEQ ID NOS: 36
;  SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 26
;  LENGTH: 955
;  TYPE: DNA
;  ORGANISM: Homo sapiens
US-09-845-416-26

Query Match              100.0%;  Score 125;  DB 3;  Length 955;
Best Local Similarity    100.0%;  Pred. No. 1.1e-27;
Matches  125; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy         1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC 60
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC 60

Qy        61 CGACGCCCGGGGCTTTGCCCGGCGGCGCCCTCAGTGAGCGAGCGAGCGCGCGAGAGGGAGTG 120
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         1 CGACGCCCGGGGCTTTGCCCGGCGGCGCCCTCAGTGAGCGAGCGAGCGCGCGAGAGGGAGTG 60

Qy       121 GCCAA 125
             |||||
Db       121 GCCAA 125

Search completed: March 12, 2006, 20:34:24
Job time : 814 secs
```

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 12, 2006, 20:20:54 ; Search time 543 Seconds
                                    (without alignments)
                              531.146 Million cell updates/sec

Title: US-10-620-039-1_COPY_1_125
Perfect score: 125
Sequence: 1 TTGGCCACTCCCTCTCTCGG......CGCAGAGAGGAGGAGTGGCCAA 125
Scoring table: IDENTITY NUC
                Gapop 10.0 , Gapext 1.0
Searched: 7673375 seqs, 1153648444 residues

Total number of hits satisfying chosen parameters: 15346750

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :   Published_Applications_NA_New:*
        1: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
        2: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
        3: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
        4: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
        5: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
        6: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq1:*
        7: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
        8: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq1:*
        9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
       10: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq2:*
       11: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq3:*
       12: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq4:*
       13: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	125	100.0	145	12	US-11-127-832-6	Sequence 6, Appli
2	125	100.0	165	12	US-11-058-751-7	Sequence 7, Appli
3	125	100.0	165	12	US-11-127-832-8	Sequence 8, Appli
4	125	100.0	464	12	US-11-157-608-9	Sequence 9, Appli
5	125	100.0	698	12	US-11-157-608-8	Sequence 8, Appli
6	125	100.0	803	12	US-11-157-608-11	Sequence 11, Appli
7	125	100.0	803	12	US-11-157-608-11	Sequence 11, Appli
8	125	100.0	1271	12	US-11-157-608-10	Sequence 10, Appli
9	125	100.0	1271	12	US-11-157-608-10	Sequence 10, Appli
10	125	100.0	4675	12	US-11-127-832-2	Sequence 2, Appli
11	125	100.0	4679	12	US-11-184-380-25	Sequence 25, Appli
12	125	100.0	4679	12	US-11-145-035-12	Sequence 12, Appli
13	125	100.0	4679	12	US-11-145-035-25	Sequence 25, Appli
14	125	100.0	4683	12	US-11-145-035-25	Sequence 25, Appli
15	123.4	98.7	272	12	US-11-058-751-4	Sequence 4, Appli
16	118.6	94.9	272	12	US-11-058-751-6	Sequence 6, Appli
17	110	88.0	4999	8	US-10-632-645-14	Sequence 14, Appl
18	110	88.0	11933	8	US-10-632-645-13	Sequence 13, Appl
19	110	88.0	11933	8	US-10-632-645-13	Sequence 13, Appl
20	110	88.0	11993	8	US-10-632-645-13	Sequence 13, Appl
21	108.4	86.7	334	12	US-11-058-751-14	Sequence 14, Appl
22	108.4	86.7	334	12	US-11-058-751-14	Sequence 14, Appl
23	108.4	86.7	334	12	US-11-058-751-3	Sequence 3, Appli
24	108.4	86.7	505	12	US-11-058-751-3	Sequence 3, Appli
25	104.2	83.4	505	12	US-11-058-751-6	Sequence 6, Appli
26	99.4	79.5	272	12	US-11-058-751-4	Sequence 4, Appli
27	97.8	78.2	145	12	US-11-127-832-6	Sequence 6, Appli
28	97.8	78.2	165	12	US-11-058-751-7	Sequence 7, Appli
29	97.8	78.2	165	12	US-11-127-832-8	Sequence 8, Appli
30	97.8	78.2	464	12	US-11-157-608-9	Sequence 9, Appli
31	97.8	78.2	698	12	US-11-157-608-8	Sequence 8, Appli
32	97.8	78.2	1271	12	US-11-157-608-10	Sequence 10, Appli
33	97.8	78.2	4675	12	US-11-127-832-2	Sequence 2, Appli
34	97.8	78.2	4679	12	US-11-184-380-25	Sequence 25, Appli
35	97.8	78.2	4679	12	US-11-145-035-12	Sequence 12, Appli
36	97.8	78.2	4683	12	US-11-145-035-25	Sequence 25, Appli
37	97.0	77.0	4722	12	US-11-145-035-21	Sequence 21, Appli
38	95.2	76.2	4722	12	US-11-145-035-21	Sequence 21, Appli
39	94.4	75.5	300	12	US-11-058-751-5	Sequence 5, Appli
40	91.4	73.1	125	12	US-10-719-311-6	Sequence 6, Appli
41	91.4	73.1	4718	12	US-11-145-035-19	Sequence 19, Appli
42	91.4	73.1	4721	12	US-11-145-035-37	Sequence 37, Appli
43	91.4	73.1	4767	12	US-11-145-035-23	Sequence 23, Appli
44	91.4	73.1	4768	8	US-10-719-311-1	Sequence 1, Appli
45	85	68.0	345	12	US-11-058-751-9	Sequence 9, Appl

ALIGNMENTS

RESULT 1
US-11-127-832-6
Sequence 6, Application US/11127832
Publication No. US20060008884A1
GENERAL INFORMATION:
  APPLICANT: Hearing, Patrick
  APPLICANT: Bahou, Wadie
  APPLICANT: Sandalon, Ziv
  APPLICANT: Gnatenko, Dmitri
  TITLE OF INVENTION: Adenoviral Vectors
  FILE REFERENCE: STONYB-04970
  CURRENT APPLICATION NUMBER: US/11/127,832
  CURRENT FILING DATE: 2005-05-12
  PRIOR APPLICATION NUMBER: US/09/782,378
  PRIOR FILING DATE: 2001-02-12
  PRIOR APPLICATION NUMBER: 60/237,747
  PRIOR FILING DATE: 2000-10-02
  NUMBER OF SEQ ID NOS: 27
  SOFTWARE: Patentin version 3.0
  SEQ ID NO 6
  LENGTH: 145
  TYPE: DNA
  ORGANISM: Homo sapiens
US-11-127-832-6

  Query Match 100.0%; Score 125; DB 12; Length 145;
  Best Local Similarity 100.0%; Pred. No. 2.3e-25;
  Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGCCACTCCCTCTCTCGGCCGCGCTCGGCGGCCTCGCTCGCTCACTCGAGGCCGGACCAAGGTCGCGCC 60
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 1 TTGGCCACTCCCTCTCTCGGCCGCGCTCGGCGGCCTCGCTCGCTCACTCGAGGCCGGACCAAGGTCGCGCC 60

Qy 61 CGACGCCCGGCGCTTTGCCCGGGCGGCGCCTCAGTGAGCGAGCGAGCGCGCGGGCGCCAGAGAGGAGGAGTG 120
       ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 61 CGACGCCCGGCGCTTTGCCCGGGCGGCGCCTCAGTGAGCGAGCGAGCGCGCGGGCGCCAGAGAGGAGGAGTG 120

Qy 121 GCCAA 125
        |||||
Db 121 GCCAA 125

RESULT 2

```
US-11-058-751-7
; Sequence 7, Application US/11058751
; Publication No. US20050025087A1
; GENERAL INFORMATION:
; APPLICANT: Engelhardt, John F.
; APPLICANT: Duan, Dongshen
; APPLICANT: University of Iowa Research Foundation
; TITLE OF INVENTION: Adeno-associated virus vectors
; FILE REFERENCE: 875.007US2
; CURRENT APPLICATION NUMBER: US/11/058,751
; CURRENT FILING DATE: 2005-02-15
; PRIOR APPLICATION NUMBER: US/10/054,665
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: US 60/086,166
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 09/276,625
; PRIOR FILING DATE: 1999-03-25
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 165
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: SEQ ID NO:1 of U.S. Patent No. 5,478,745

  Query Match           100.0%;  Score 125;  DB 12;  Length 165;
  Best Local Similarity 100.0%;  Pred. No. 2.3e-25;
  Matches 125;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

Qy           1 TTGGCCACTCCCTCTCTTGCGCGCTCGGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC      60
Db          21 TTGGCCACTCCCTCTCTTGCGCGCTCGGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC      80

Qy          61 CGACGCCCGGGCTTTGCCCGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG     120
Db          81 CGACGCCCGGGCTTTGCCCGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG     140

Qy         121 GCCAA 125
Db         141 GCCAA 145


RESULT 3
US-11-127-832-8
; Sequence 8, Application US/1112 7832
; Publication No. US20060008884A1
; GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick
; APPLICANT: Sandalon, Ziv
; APPLICANT: Gnatenko, Dmitri
; TITLE OF INVENTION: Adenoviral Vectors
; FILE REFERENCE: STONYB-04970
; CURRENT APPLICATION NUMBER: US/11/127,832
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US/09/782,378
; PRIOR FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/237,747
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 8
; LENGTH: 165
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-127-832-8

  Query Match           100.0%;  Score 125;  DB 12;  Length 165;
  Best Local Similarity 100.0%;  Pred. No. 2.3e-25;
  Matches 125;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;
```

```
RESULT 4
US-11-157-608-9
; Sequence 9, Application US/11157608
; Publication No. US20060018882A1
; GENERAL INFORMATION:
; APPLICANT: KAEMMERER, William F.
; TITLE OF INVENTION: MEDICAL DEVICES AND METHODS FOR DELIVERING COMPOSITIONS TO CELLS
; FILE REFERENCE: 134.02160101
; CURRENT APPLICATION NUMBER: US/11/157,608
; CURRENT FILING DATE: 2005-06-21
; PRIOR APPLICATION NUMBER: 60/581,730
; PRIOR FILING DATE: 2004-06-21
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 9
; LENGTH: 464
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial AAV vector
US-11-157-608-9

  Query Match           100.0%;  Score 125;  DB 12;  Length 464;
  Best Local Similarity 100.0%;  Pred. No. 2e-25;
  Matches 125;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

Qy           1 TTGGCCACTCCCTCTCTTGCGCGCTCGGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC      60
Db          21 TTGGCCACTCCCTCTCTTGCGCGCTCGGCTCGCTCACTGAGGCCGGGCGACCAAAGGTCGCC      80

Qy          61 CGACGCCCGGGCTTTGCCCGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG     120
Db          81 CGACGCCCGGGCTTTGCCCGGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGAGAGGGAGTG     140

Qy         121 GCCAA 125
Db         141 GCCAA 145


RESULT 5
US-11-157-608-8
; Sequence 8, Application US/11157608
; Publication No. US20060018882A1
; GENERAL INFORMATION:
; APPLICANT: KAEMMERER, William F.
; TITLE OF INVENTION: MEDICAL DEVICES AND METHODS FOR DELIVERING COMPOSITIONS TO CELLS
; FILE REFERENCE: 134.02160101
; CURRENT APPLICATION NUMBER: US/11/157,608
; CURRENT FILING DATE: 2005-06-21
; PRIOR APPLICATION NUMBER: 60/581,730
; PRIOR FILING DATE: 2004-06-21
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 8
; LENGTH: 698
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial AAV vector
US-11-157-608-8
```

RESULT 6
US-11-157-608-11

; Sequence 11, Application US/11157608
; Publication No. US20060018882A1
; GENERAL INFORMATION:
; APPLICANT: KAEMMERER, William F.
; TITLE OF INVENTION: MEDICAL DEVICES AND METHODS FOR DELIVERING COMPOSITIONS TO CELLS
; FILE REFERENCE: 134.02160101
; CURRENT APPLICATION NUMBER: US/11/157,608
; CURRENT FILING DATE: 2005-06-21
; PRIOR APPLICATION NUMBER: 60/581,730
; PRIOR FILING DATE: 2004-06-21
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 11
; LENGTH: 803
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial AAV vector
US-11-157-608-11

Query Match   100.0%; Score 125; DB 12; Length 698;
Best Local Similarity 100.0%; Pred. No. 1.9e-25;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TTGGCCACTCCCTCTCGTCGGCGCCCTTCGTCGTCGCTCGTGAGGGCCGGAGTTCGCC 60
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 TTGGCCACTCCCTCTCGTCGGCGCCCTTCGTCGTCGCTCGTGAGGGCCGGAGTTCGCC 60

Qy   61 CGACGCGCCCGGGGCTTTGCCCGGGGCGGGGGCCCGGGGCCGGGGGAGAGAGGAGGGAGTG 120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CGACGCGCCCGGGGCTTTGCCCGGGGCGGGGGCCCGGGGCCGGGGGAGAGAGGAGGGAGTG 120

Qy 121 GCCAA 125
         |||||
Db 121 GCCAA 125

RESULT 7
US-11-157-608-11/c

; Sequence 11, Application US/11157608
; Publication No. US20060018882A1
; GENERAL INFORMATION:
; APPLICANT: KAEMMERER, William F.
; TITLE OF INVENTION: MEDICAL DEVICES AND METHODS FOR DELIVERING COMPOSITIONS TO CELLS
; FILE REFERENCE: 134.02160101
; CURRENT APPLICATION NUMBER: US/11/157,608
; CURRENT FILING DATE: 2005-06-21
; PRIOR APPLICATION NUMBER: 60/581,730
; PRIOR FILING DATE: 2004-06-21
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 11
; LENGTH: 803

RESULT 8
US-11-157-608-10

; Sequence 10, Application US/11157608
; Publication No. US20060018882A1
; GENERAL INFORMATION:
; APPLICANT: KAEMMERER, William F.
; TITLE OF INVENTION: MEDICAL DEVICES AND METHODS FOR DELIVERING COMPOSITIONS TO CELLS
; FILE REFERENCE: 134.02160101
; CURRENT APPLICATION NUMBER: US/11/157,608
; CURRENT FILING DATE: 2005-06-21
; PRIOR APPLICATION NUMBER: 60/581,730
; PRIOR FILING DATE: 2004-06-21
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 10
; LENGTH: 1271
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial AAV vector
US-11-157-608-10

Query Match   100.0%; Score 125; DB 12; Length 1271;
Best Local Similarity 100.0%; Pred. No. 1.9e-25;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TTGGCCACTCCCTCTCGTCGGCGCCCTTCGTCGTCGCTCGTGAGGGCCGGAGTTCGCC 60
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 803 TTGGCCACTCCCTCTCGTCGGCGCCCTTCGTCGTCGCTCGTGAGGGCCGGAGTTCGCC 744

Qy   61 CGACGCGCCCGGGGCTTTGCCCGGGGCGGGGGCCCGGGGCCGGGGGAGAGAGGAGGGAGTG 120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 743 CGACGCGCCCGGGGCTTTGCCCGGGGCGGGGGCCCGGGGCCGGGGGAGAGAGGAGGGAGTG 684

Qy 121 GCCAA 125
         |||||
Db 683 GCCAA 679

RESULT 9
US-11-157-608-10/c

; Sequence 10, Application US/11157608
; Publication No. US20060018882A1
; GENERAL INFORMATION:
; APPLICANT: KAEMMERER, William F.
; TITLE OF INVENTION: MEDICAL DEVICES AND METHODS FOR DELIVERING COMPOSITIONS TO CELLS
; FILE REFERENCE: 134.02160101
; CURRENT APPLICATION NUMBER: US/11/157,608
; CURRENT FILING DATE: 2005-06-21
; PRIOR APPLICATION NUMBER: 60/581,730

; PRIOR FILING DATE: 2004-06-21
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin version 3.2
;
; SEQ ID NO 10
; LENGTH: 1271
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial AAV vector
US-11-157-608-10

Query Match   100.0%; Score 125; DB 12; Length 1271;
Best Local Similarity 100.0%; Pred. No. 1.8e-25;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TTGGCCACTCCCTCTCTTGCCGCGCTCGCGCTCGGCGCTCGCTCACTGAGGCCGGGCGCC 60
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1271 TTGGCCACTCCCTCTCTTGCCGCGCTCGCGCTCGGCGCTCGCTCACTGAGGCCGGGCGCC 1212

Qy   61 CGACGCCCGGGCTTTGCCCGGGCGGCGGCGGCGGGCGGCCCGCAGAGAGGGAGTG 120
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1211 CGACGCCCGGGCTTTGCCCGGGCGGCGGCGGCGGGCGGCCCGCAGAGAGGGAGTG 1152

Qy   121 GCCAA 125
            |||||
Db   1151 GCCAA 1147

RESULT 10
US-11-127-832-1
; Sequence 1, Application US/11127832
; Publication No. US2006008884A1
; GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick
; APPLICANT: Bahou, Wadie
; APPLICANT: Sandalon, Ziv
; APPLICANT: Gnatenko, Dmitri
; TITLE OF INVENTION: Adenoviral Vectors
; FILE REFERENCE: STONYB-04970
; CURRENT APPLICATION NUMBER: US/11/127,832
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US/09/782,378
; PRIOR FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/237,747
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin version 3.0
;
; SEQ ID NO 1
; LENGTH: 4675
; TYPE: DNA
; ORGANISM: Human adeno-associated virus 2
US-11-127-832-1

Query Match   100.0%; Score 125; DB 12; Length 4675;
Best Local Similarity 100.0%; Pred. No. 1.6e-25;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TTGGCCACTCCCTCTCTTGCCGCGCTCGCGCTCGGCGCTCGCTCACTGAGGCCGGGCGCC 60
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 TTGGCCACTCCCTCTCTTGCCGCGCTCGCGCTCGGCGCTCGCTCACTGAGGCCGGGCGCC 60

Qy   61 CGACGCCCGGGCTTTGCCCGGGCGGCGGCGGCGGGCGGCCCGCAGAGAGGGAGTG 120
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CGACGCCCGGGCTTTGCCCGGGCGGCGGCGGCGGGCGGCCCGCAGAGAGGGAGTG 120

Qy   121 GCCAA 125
            |||||
Db   121 GCCAA 125

RESULT 11
US-11-127-832-2
; Sequence 2, Application US/11127832

RESULT 13
US-11-145-035-12
; Sequence 12, Application US/11145035
; Publication No. US20050287122A1
; GENERAL INFORMATION:
; APPLICANT: Bartlett et al.
; TITLE OF INVENTION: AAV VECTORS AND METHODS
; FILE REFERENCE: 28335/41335
; CURRENT APPLICATION NUMBER: US/11/145,035
; CURRENT FILING DATE: 2005-06-03
; PRIOR APPLICATION NUMBER: US 10/038,972
; PRIOR FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: US 60/260,124
; PRIOR FILING DATE: 2001-01-05
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 12
; LENGTH: 4679
; TYPE: DNA
; ORGANISM: adeno-associated virus 2
US-11-145-035-12

```
Qy   61 CGACGCCCGGGGCTTTGCCCGGGCGGGGCGCCGAGCGGAGAGGGAGTG 120
        ||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CGACGCCCGGGGCTTTGCCCGGGCGGGGCGCCGAGCGGAGAGGGAGTG 120

Qy  121 GCCAA 125
        |||||
Db  121 GCCAA 125
```

Query Match 100.0%; Score 125; DB 12; Length 4679;
Best Local Similarity 100.0%; Pred. No. 1.6e-25;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 14
US-11-145-035-25
; Sequence 25, Application US/11145035
; Publication No. US20050287122A1
; GENERAL INFORMATION:
; APPLICANT: Bartlett et al.
; TITLE OF INVENTION: AAV VECTORS AND METHODS
; FILE REFERENCE: 28335/41335
; CURRENT APPLICATION NUMBER: US/11/145,035
; CURRENT FILING DATE: 2005-06-03
; PRIOR APPLICATION NUMBER: US 10/038,972
; PRIOR FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: US 60/260,124
; PRIOR FILING DATE: 2001-01-05
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 25
; LENGTH: 4683
; TYPE: DNA
; ORGANISM: Adeno-associate virus 6
US-11-145-035-25

```
Qy    1 TTGGCCACTCCCTTCTCTCTGCGCGCCTCGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAAGGTCGCC 60
        |||||||||||||||||||| ||||  |||||||||||||||||||||||||||||||||||||||||||
Db    1 TTGGCCACTCCCTTCTCTCTGGCTCTCGCTCGCTCACTGAGGCCGGGCGACCAAAAGGTCGCC 60

Qy   61 CGACGCCCGGGGCTTTGCCCGGGCGGGGCGCCGAGCGGAGAGGGAGTG 120
        ||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CGACGCCCGGGGCTTTGCCCGGGCGGGGCGCCGAGCGGAGAGGGAGTG 120

Qy  121 GCCAA 125
        |||||
Db  121 GCCAA 125
```

RESULT 15
US-11-058-751-4
; Sequence 4, Application US/11058751
; Publication No. US20050255087A1
; GENERAL INFORMATION:
; APPLICANT: Engelhardt, John F.
; APPLICANT: Duan, Dongshen
; APPLICANT: University of Iowa Research Foundation
; TITLE OF INVENTION: Adeno-associated virus vectors
; FILE REFERENCE: 875.007US2
; CURRENT APPLICATION NUMBER: US/11/058,751
; CURRENT FILING DATE: 2005-02-15
; PRIOR APPLICATION NUMBER: US 60/086,166
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: US 60/086,166
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 09/276,625
; PRIOR FILING DATE: 1999-03-25
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 272
; TYPE: DNA
; ORGANISM: AAV circular intermediate, clone p81
US-11-058-751-4

```
Qy    1 TTGGCCACTCCCTTCTCTCTGCGCGCCTCGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAAGGTCGCC 60
        |||||||||||||||||||| ||||  |||||||||||||||||||||||||||||||||||||||||||
Db   69 TTGGCCACTCCCTTCTCTCTGGCTCTCGCTCGCTCACTGAGGCCGGGCGACCAAAAGGTCGCC 128

Qy   61 CGACGCCCGGGGCTTTGCCCGGGCGGGGCGCCGAGCGGAGAGGGAGTG 120
        ||||||||||||||||||||||||||||||||||||||||||||||||
Db  129 CGACGCCCGGGGCTTTGCCCGGGCGGGGCGCCGAGCGGAGAGGGAGTG 188

Qy  121 GCCAA 125
        |||||
Db  189 GCCAA 193
```

Query Match 98.7%; Score 123.4; DB 12; Length 272;
Best Local Similarity 99.2%; Pred. No. 5.9e-25;
Matches 124; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Search completed: March 12, 2006, 20:43:39
Job time : 544 secs